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Stereo Console Amplifier



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### 1. POWER AMPLIFIER ADJUSTMENT

#### 1.1 DC-0FFSET Adjustment

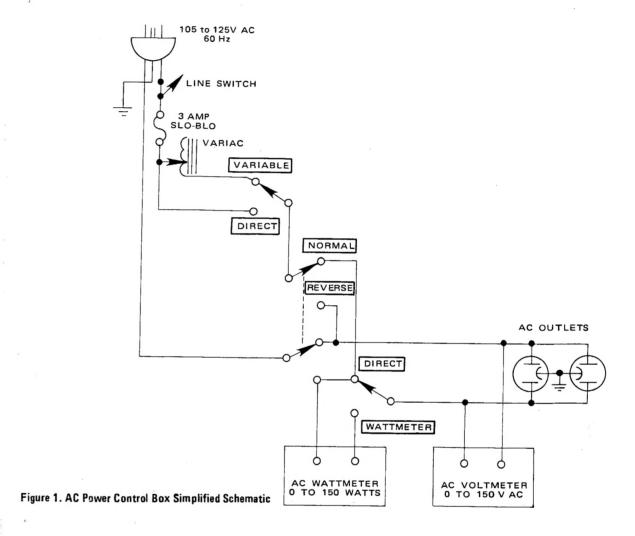
Connect VTVM to J860 and J865 (or ground) and adjust left channel R739 until the meter indication reaches 0mV (±5mV). Similarly, connect VTVM to J861 and J865 (or ground) and adjust right channel R740 until the meter indication reaches 0mV (±5mV).

## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 1122DC Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

ltem	Manufacturer and Model No. (or equivalent)	Use
Distortion Analyzer and Audio Oscillator	Sound Technologe, Model 1700B (NOTE: Less than 0.002 percent residual distortion is required.)	Measures distortion, voltage of amplifier output and sinewave source.
Oscilloscope	Tektronix, Model 503; Data, Model 555	Waveform analysis and troubleshooting.
VTVM	RCA Senior Volt-Ohmyst, Model WV-98C	Voltage and resistance measurements.
AC Wattmeter	Simpson, Model 390	Monitors primary power consumption of amplifier.
AC Ammeter (0 to 10 amps)	Commercial Grade	Monitors amplifier output under short circuit condition.
Line Voltmeter (0 to 150V AC)	Commercial Grade	Monitors potential of primary power to amplifier.
Variable Autotransformer (0 to 140V AC, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohms across center pin and shell.	Shorts amplifier input to elimi- nate noise pickup.
Power Supply Bleeder Resistor (10 ohms at 1W)	Commercial Grade	Discharges power supply filter capacitors prior to disassembly or resistance measurements.
Output Load Resistor $(8\Omega \pm 0.5\%, 250W)$	Commercial Grade	Provides 4-ohm load for ampli- fier output termination.
Output Load Resistor (4 $\Omega$ ±0.5%, 250W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks.
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1.	Monitors and controls primary power for amplifier.
Amplifier Output Load Box	Optional Item. Fabricate in accordance with Figure 2.	Provides various amplfier loads and can monitor shorted output.

Table. 1 Test Equipment Required for Servicing



4 Ω (MOMENTARY SWITCH)

O OFF

O SHORT

SOUND SHORT

SOUND SHORT

AC AMMETER O TO 10 AMPERES

O TO 10 AMPERES

O TO 10 AMPERES

O TO 10 AMPERES

Figure 2. Amplifier Output Load Box Simplified Schematic

## 3. VOLTAGE CONVERSION

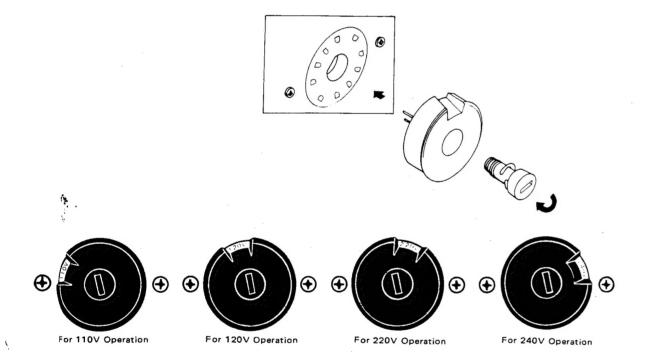
#### • EUROPEAN MODEL ONLY

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240V AC 50/60~Hz.

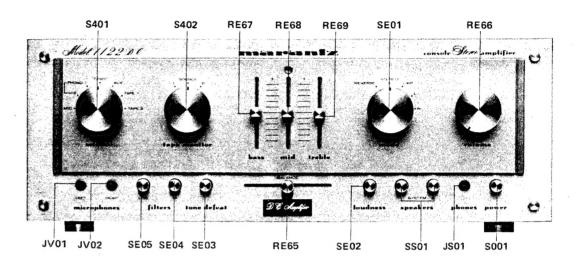
To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

### CAUTION

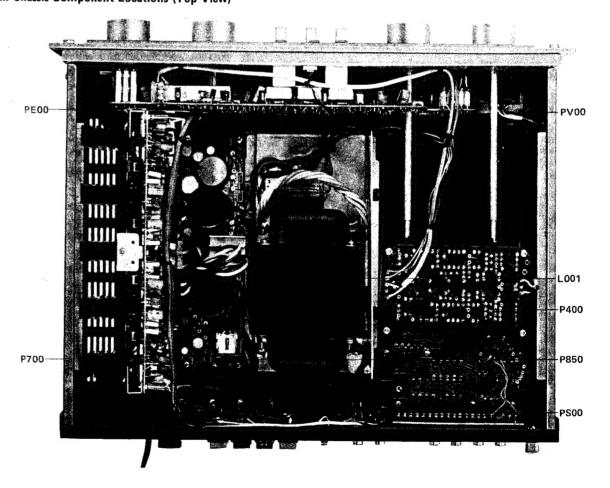
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



# 4.1 Front Panel Adjustment and Component Locations

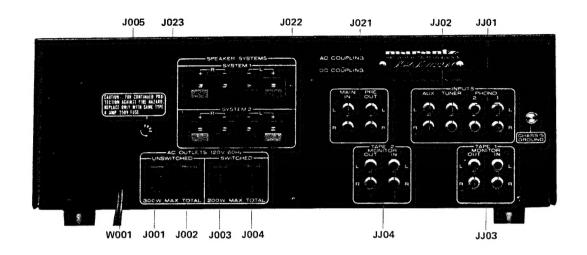


# 4.2 Main Chassis Component Locations (Top View)



3

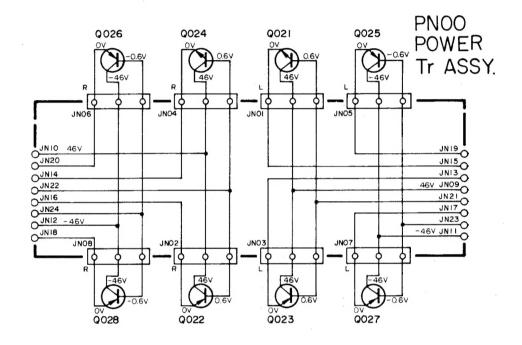
# 4.3 Rear Panel Adjustment and Component Locations

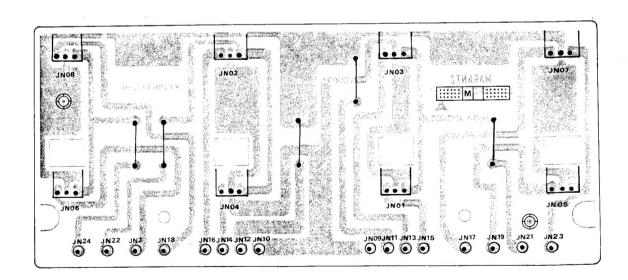


### HEREN BOGRES HEEZ

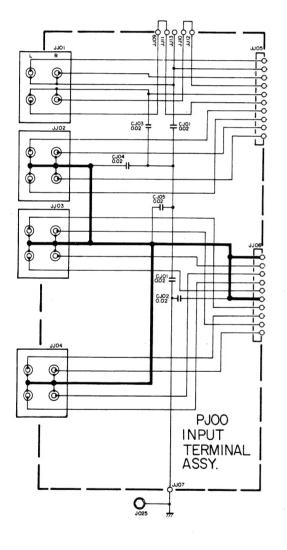
# 5. DIAGRAM AND COMPONENT LOCATIONS

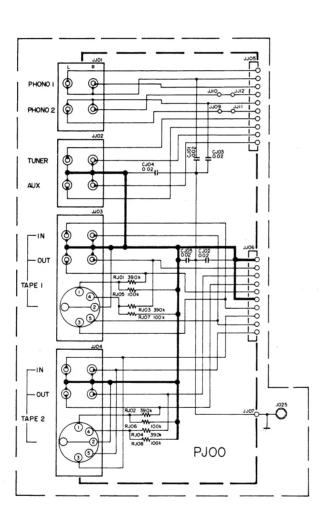
# 5.1 Power Transformer Assembly (PN00) Schematic Diagram and Component Locations





# 5.2 Input Terminal Assembly (PJ00) Schematic Diagram

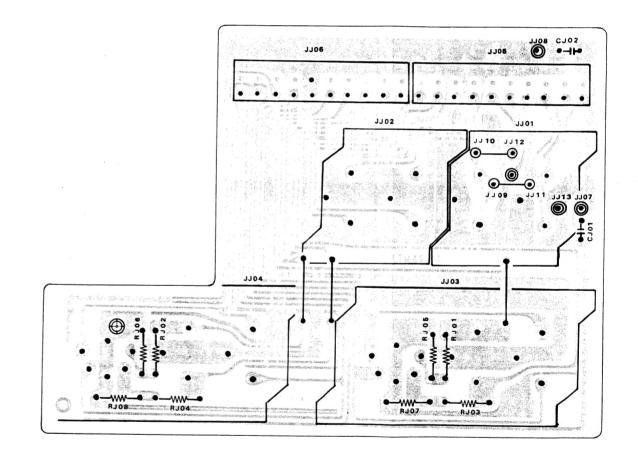




For U.S.A., Canada

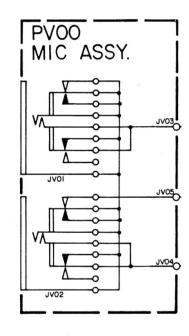
For Europe

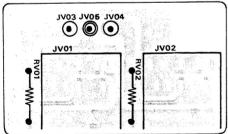
# ● Input Terminal Assembly (PJ00) Component Locations

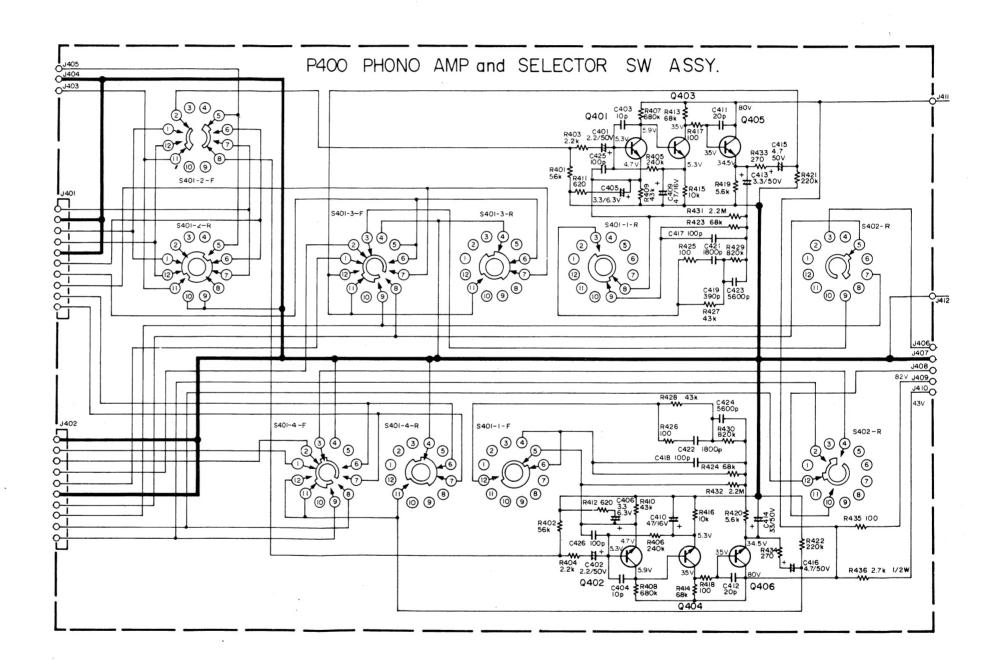


### 5.3 Mic Assembly (PV00) Schematic Diagram and Component Locations

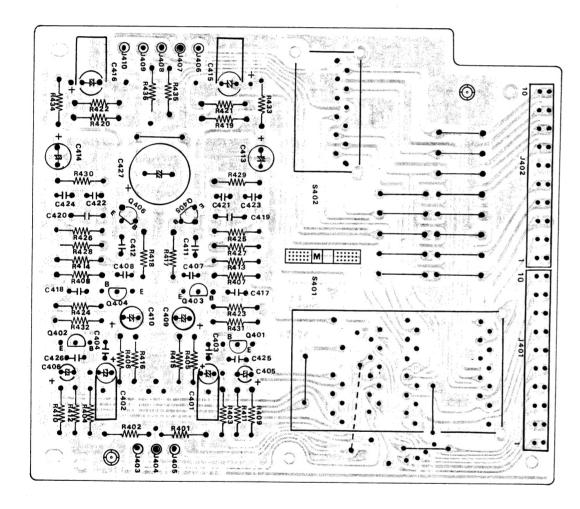
### 5.4 Phono Amp. & Selector SW. Assembly (P400) Schematic Diagram



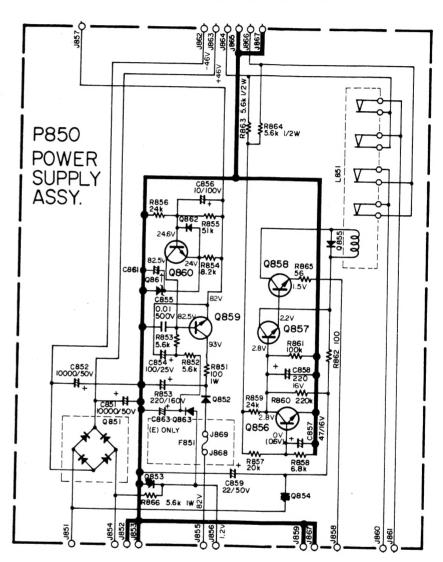


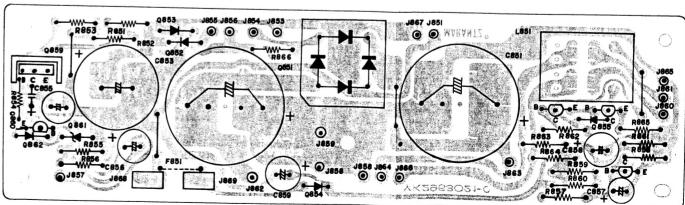


# • Phono Amp. & Selector SW. Assembly (P400) Component Locations



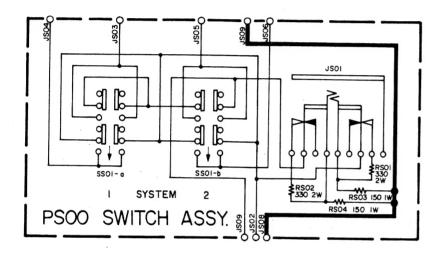
# 5.5 Power Supply Assembly (P850) Schematic Diagram and Component Locations

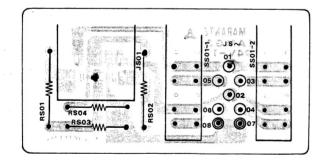




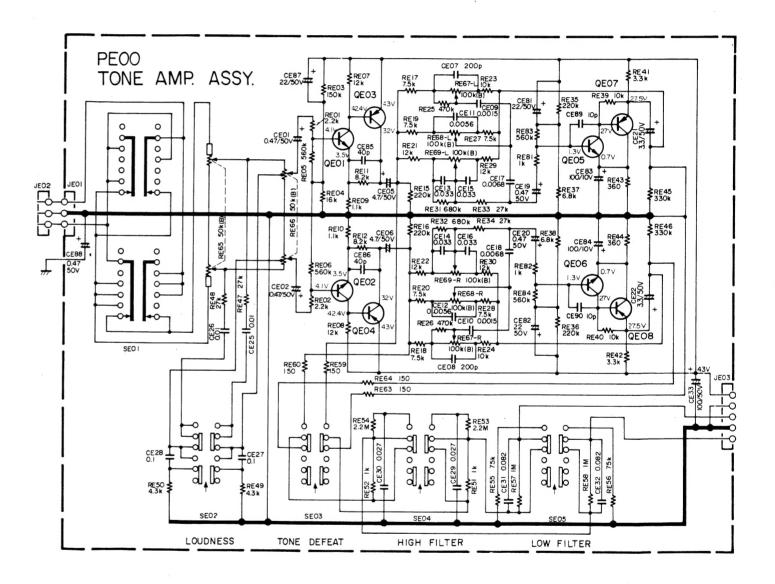
#### BERGER CONTRACTOR

## 5.6 Speaker SW. Assembly (PS00) Schematic Diagram and Component Locations

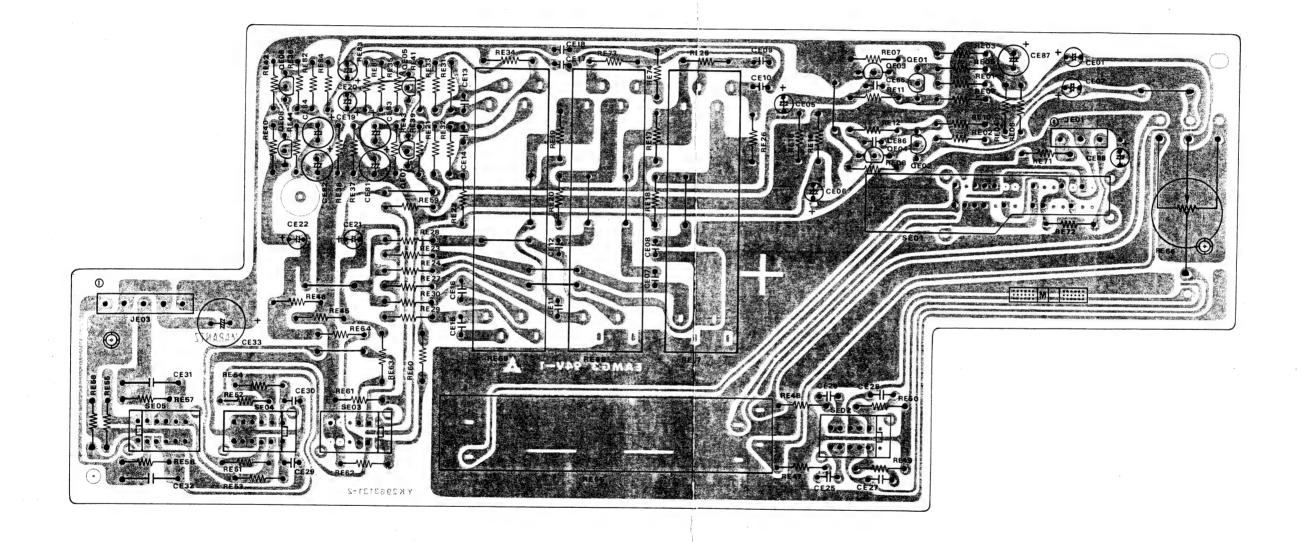




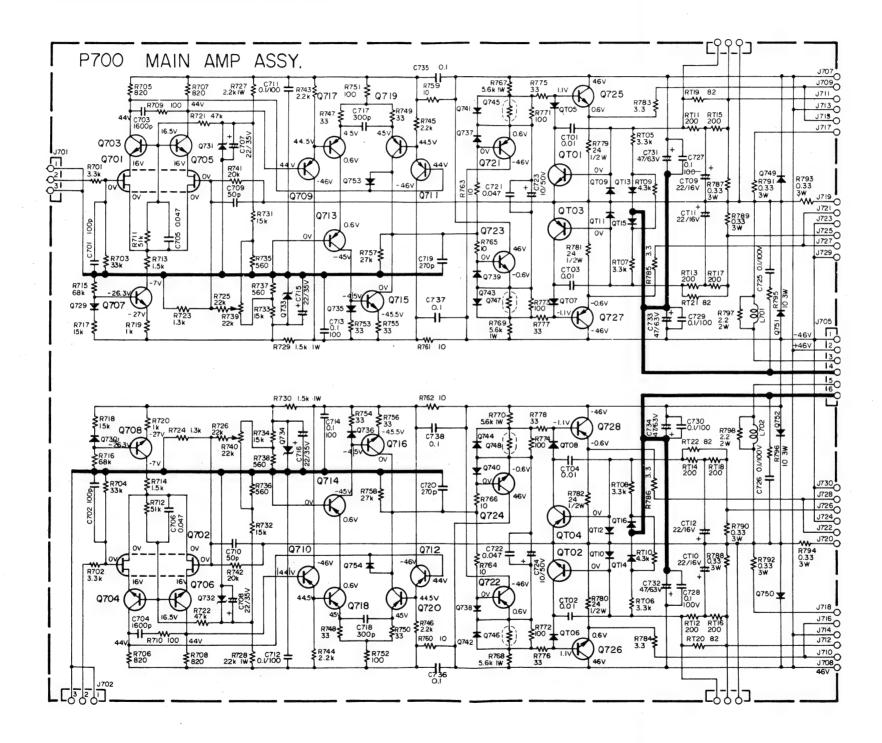
## 5.7 Tone Amp. Assembly (PE00) Schematic Diagram



● Tone Amp. Assembly (PE00) Component Locations

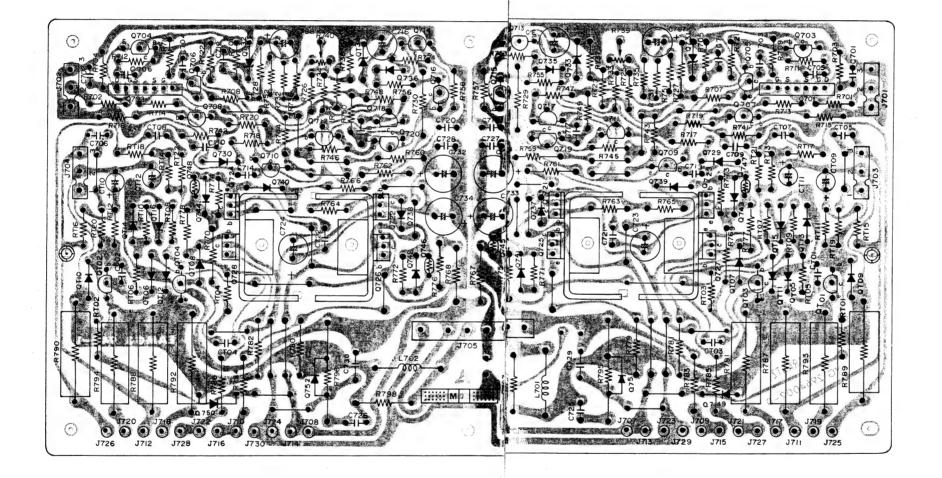


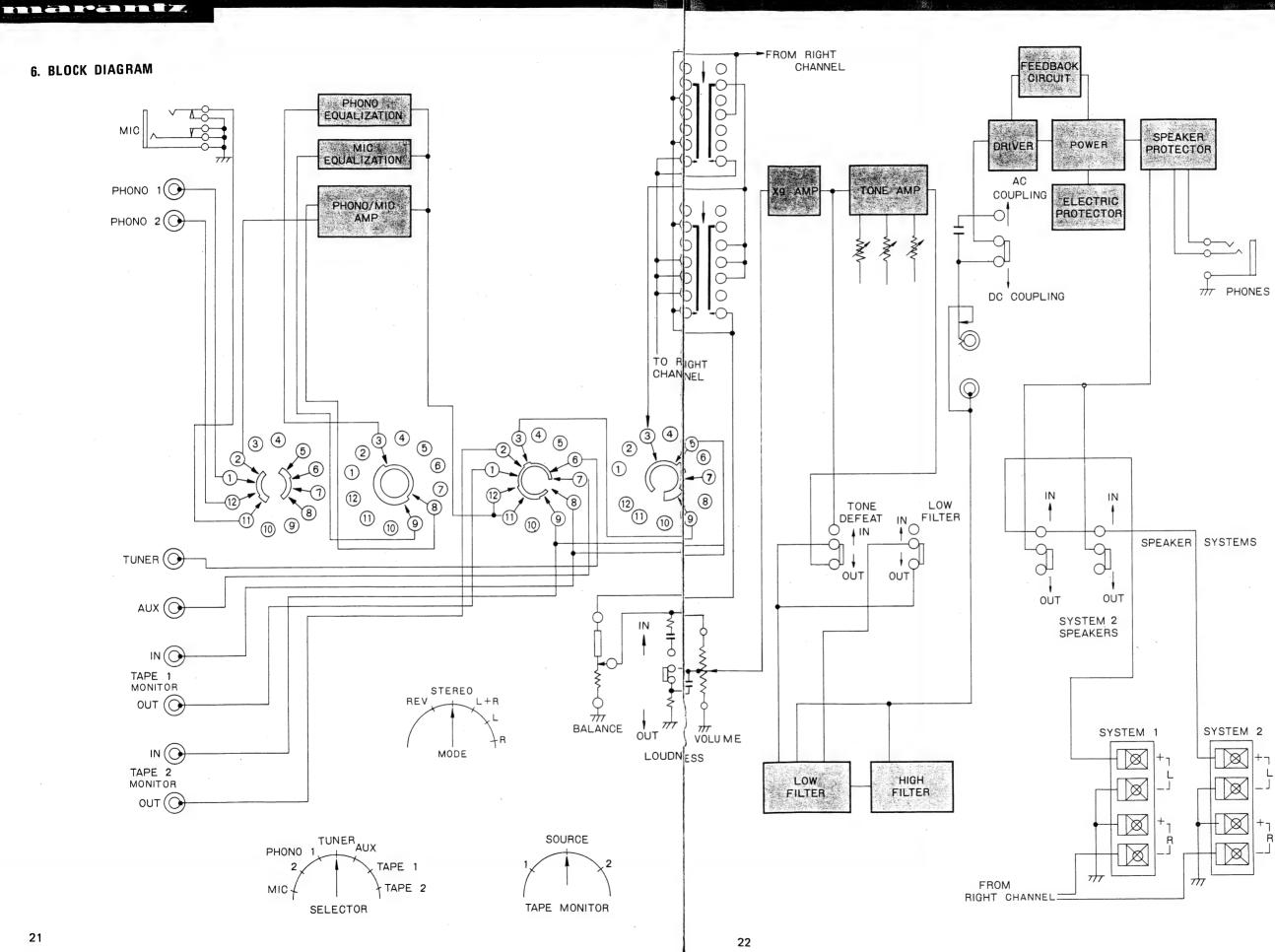
# 5.8 Main Amp. Assembly (P700) Schematic Diagram



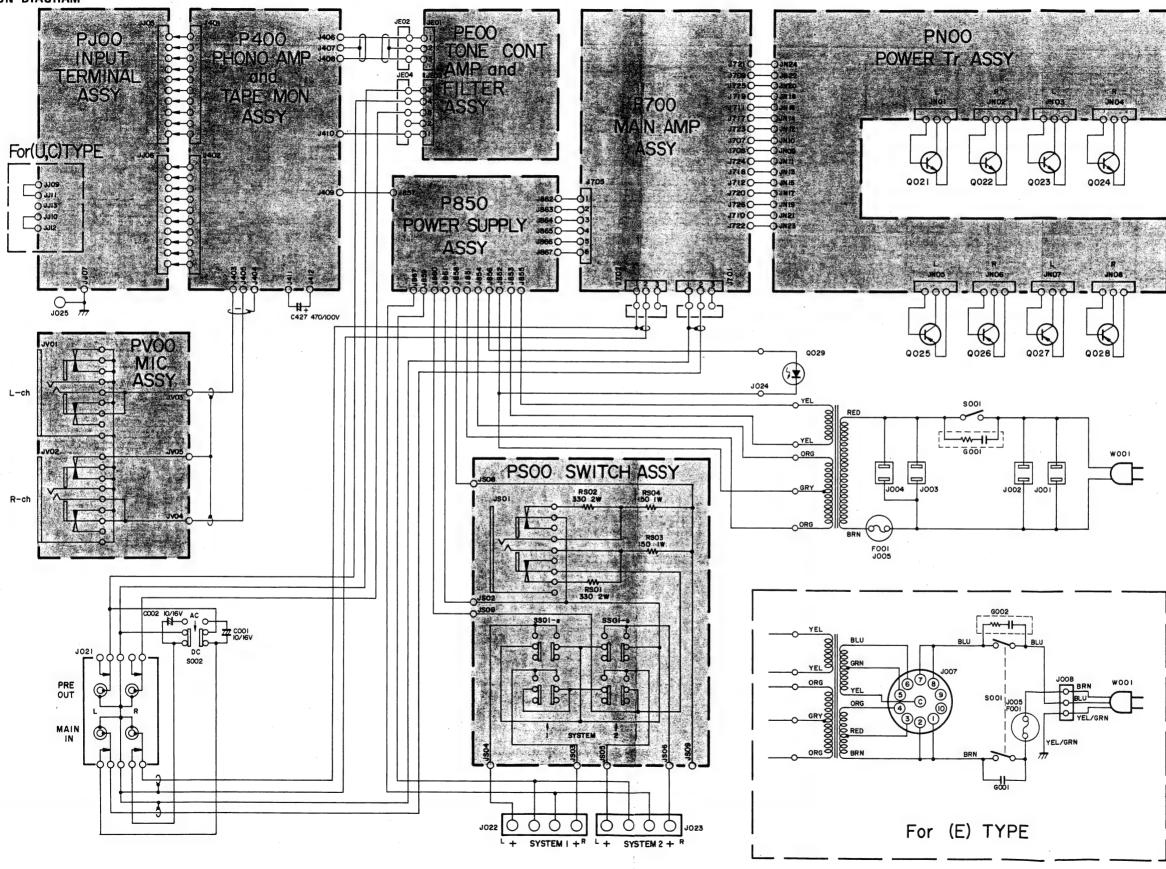
manyanat.

• Main Amp. Assembly (P700) Component Locations

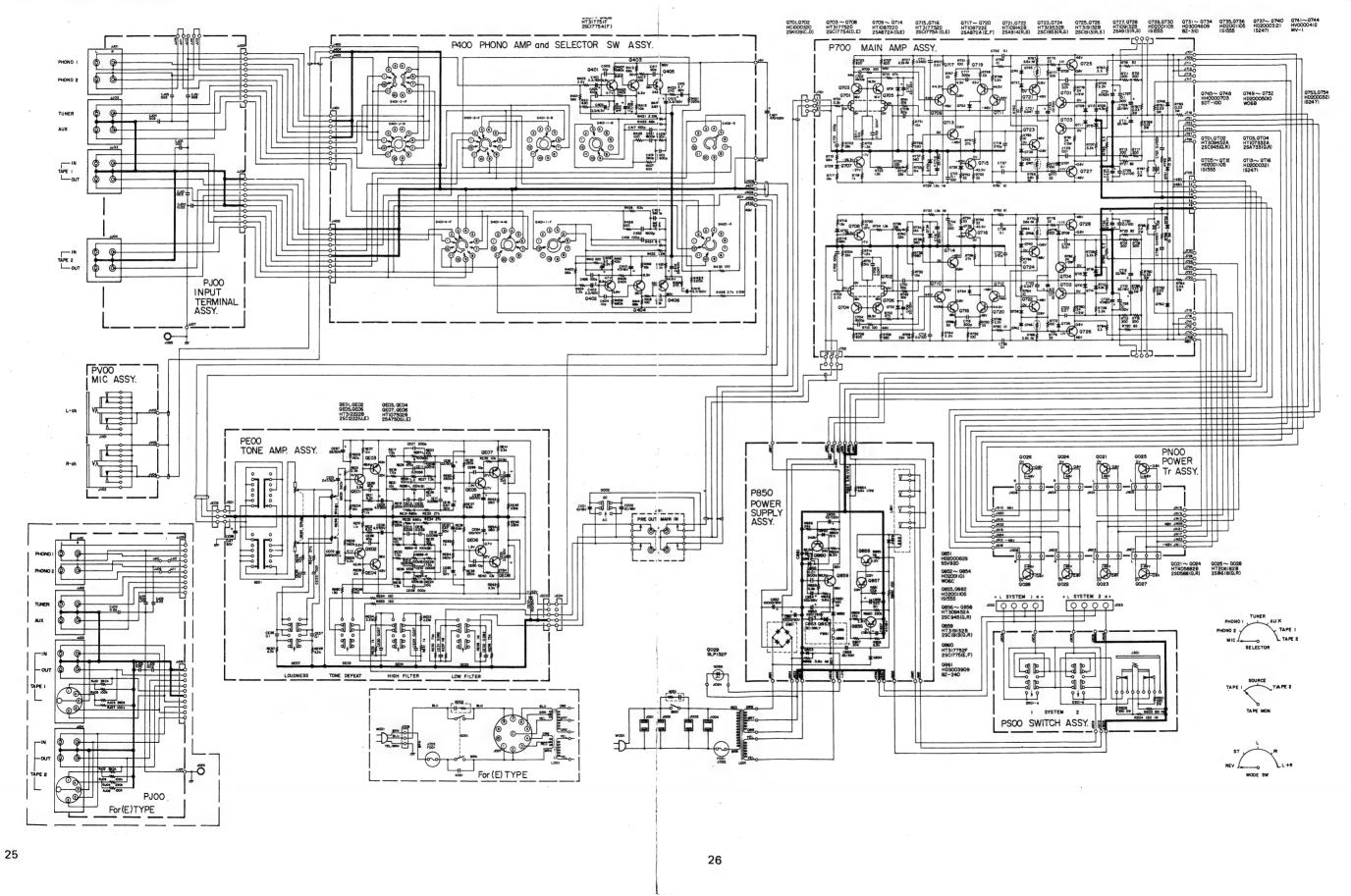




### 7. CONNECTION DIAGRAM

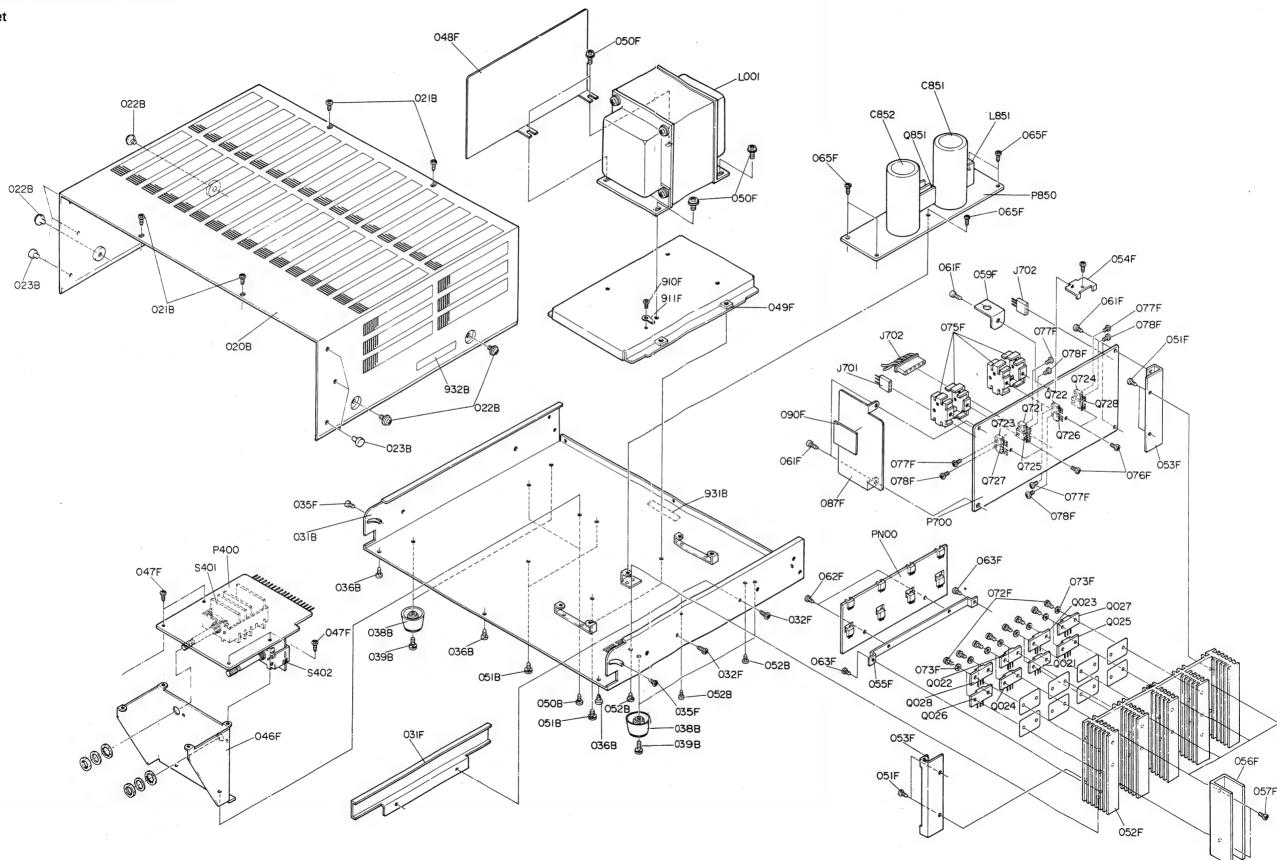


### 8. SCHEMATIC DIAGRAM

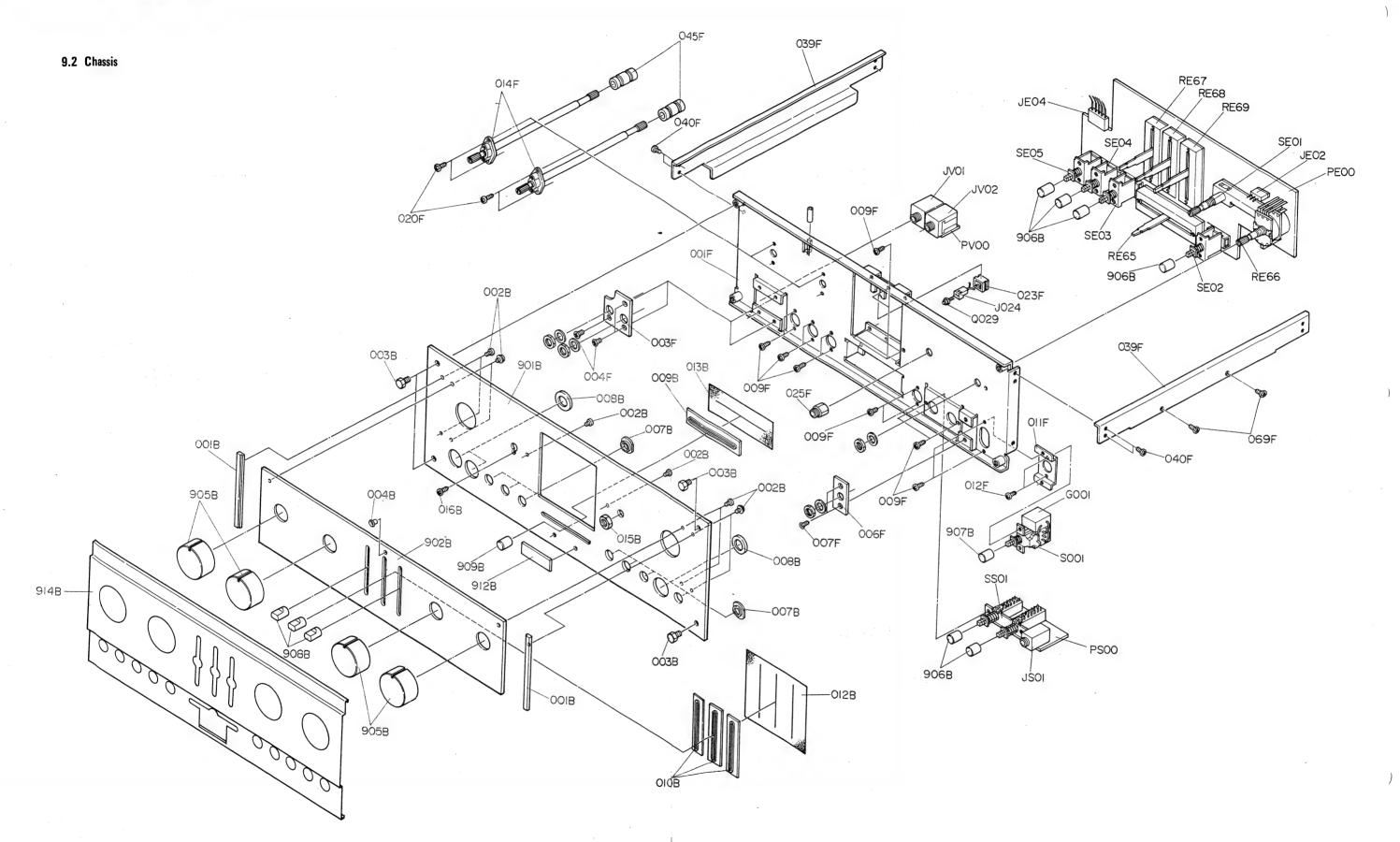


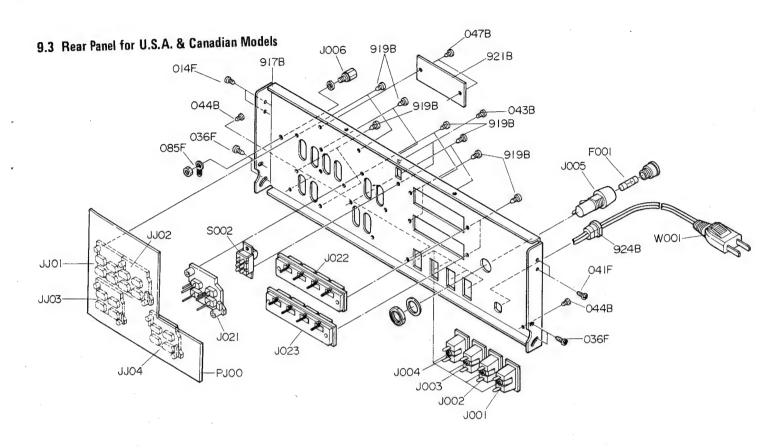
# 9. EXPLODED MECHANICAL DIAGRAM

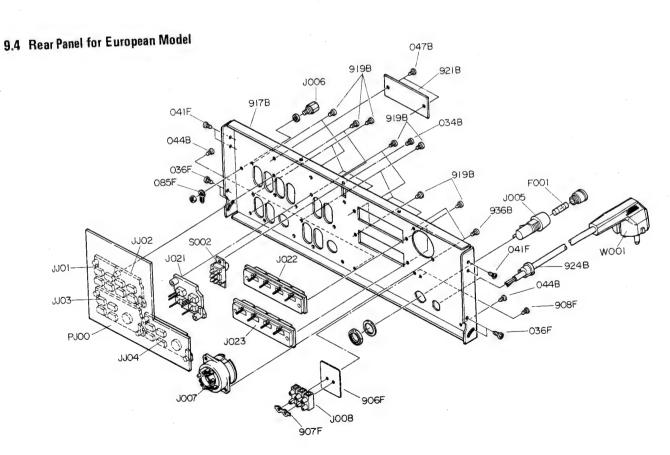
9.1 Cabinet





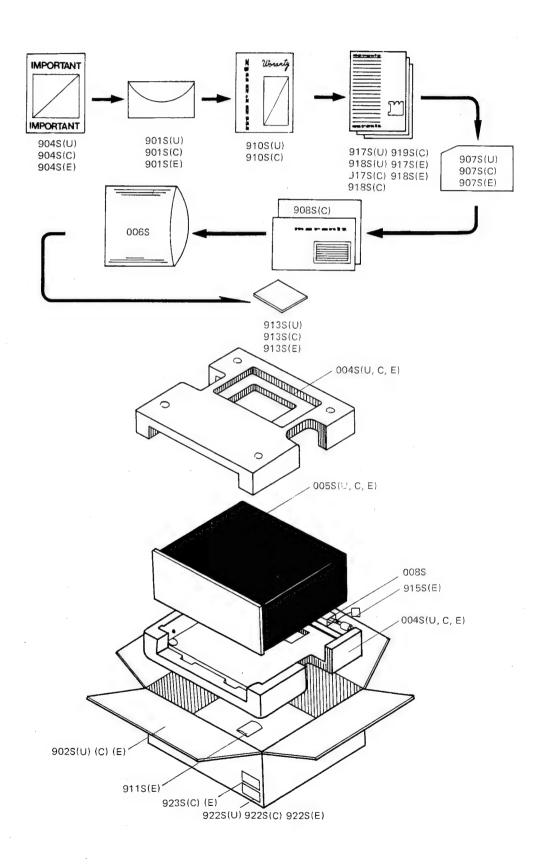






#### BERGERS AND BY

#### 10. PACKING MATERIAL EXPLODED VIEW



# 11. PARTS LIST

	, 0,		
			Canada
•	(E)	for	Europe

DEE	_	/T>	,				REF.	C	YT	Υ	DART NO	DESCRIPT	ION
REF. ESIG.	U	TY C	E	PART NO.	DESCRIPTION	ON	DESIG	U	С	E	PART NO.	DESCRIFT	1014
			-				0445	_	2	2	51280308U0	B. H. Tapped Screw,	B3 x 8
Α	1	1	1	2963063400	Front Panel Assembly		044B	3	3	3 2	2963125010	Joint	50 % 0
001B	2	2	2	2965063050	Escutcheon		045F	1	2	1	2963123010	Bracket	
	10	10	10	51480306A9	F. Washer Screw		046F 047B	2	2	2	51760306B0	OS Tapped Screw,	O3 × 6
04B	1	1	1	2979259022	Bushing	-	047F	4	4	4	51280306B0	B. H. Tapped Screw,	B3 x 6
007B	7	7	7	2978259012	Bushing		048F	1	1	1	2963109010	Shield	
008B	3	3	3	2978259020	Bushing		049F	1	1	1	2963105022	Chassis	
009B	1	1	1	2926259040	Bushing		050B	2	2	2	51100306S9	B. H. M. Screw,	B3 × 6
010B	3	3	3	2970259010	Bushing		050F	4	4	4	51490510A9	L. Washer Screw,	L5 x 10
)12B	1	1	1	2970303010	Mask		051B	4	4	4	51100410S9	B. H. M. Screw,	B4 x 10
)13B	1	1	1	2926303020	Mask								
2015				2002202214	Escutcheon		051F	4	4	4	51280306B0	B. H. Tapped Screw,	B3 x 6
901B	1	1	1	2963063014	Escutcheon		052B	3	3	3	51280308U0	B. H. Tapped Screw,	B3 x 8
002B	1	1	1	2963063022	Badge		052F	1	1	1	2963267014	Heatsink	
912B	1	1	1	2979251040 2963053012	Cover		053F	2	2	2	2963160140	Bracket	
914B	1	1	1	2963053012	Cover		054F	1	1	1	2963160130	Bracket	
							055F	1	1	1	2963160040	Bracket	
							056F	4	4	4	2963267042	Heat Sink	
							057F	8	8	8	51280306U0	B. H. Tap Screw	
							059F	1	1	1	2963120020	Insulator	B3 × 6
				0			061F	5	5	5	51280306B0	B. H. Tapped Screw,	B2 X 0
											51280306B0	B. H. Tapped Screw,	B3 x 6
P407	4	4	4	3444118050	Spacer		062F	2	2			B. H. Tapped Screw,	B3 x 6
P412	8	8	8	75061751P0	Jumper		063F	2	2	2	5128030680	B. H. Tapped Screw,	B3 x 6
708	84	84	84	2933118020	Spacer		065F	5	5	5	51280306B0 51280308B0	B. H. Tapped Screw,	B3 x 8
711	26	26	26	75061001P0	Jumper		069F	1	2			L. Washer Screw,	L3 x 12
P712	6	6	6	75061501P0	Jumper		072F			+		Heatsink	20 // / -
857	8	8	8	3444118050	Spacer		075F	4	4	4	2212267020 51100305S9	B. H. M. Screw,	B3 x 5
							076F	4	4	4	51280305U0	B. H. Tapped Screw,	B3 x 5
001F	1	1	1	2963160010	Bracket		077F	4	4	4	51280308U0	B. H. Tapped Screw,	B3 × 8
003B	4	4	4	52017069J0	H, Head Bolt		078F	4	4	1	2915267020	Heatsink	
003F		1	1	2963120012	Insulator	F3 x 6	081F	1	1	1	2913207020	Ticacanine	
004F		3	3	51340306B0		F3 X 0	0025	1	1	1	5128306U0	B. H. Tapped Screw,	B3 x 6
0048		2	2	2963809020	Cushion Bog		082F		1	1	62030049W0	Lug	
0058	1	1	1	9014335330	Polyethylene Bag		085F		1	ŧ	2963109020	Shield	
006F		1	1.	2970120020	Insulator		087F	1	1	1	51280306B0	B. H. Tapped Screw,	B3 x 6
006S		1	1	9013025010	Polyethylene Bag	F3 x 6	088F		1		62030049W0	Lug	
007F		2	2	51340306B0	F. H. Tapped Screw,	1320	089F	1	1		2922120010	Insulator	
0085	1	1	1	2864804010	Sleeve		901S	1 '	'	'	2577813010	Envelope	
				E1100206A0	B. H. M. Screw,	B3 x 6	9015	'		1	2818813010	Envelope	
009F			11/	51100306A0 2963160090		B0 × 0	9015		1	1	2918813012	Envelope	
011F	1		1			B3 x 6	9028	1	li	- 1	2963801010	Packing Case	
012F	2	2		51100306A0 2963112503		20 0	1 3020	1.	1.	Ι.			
014F				53118179A0			9048	1			2577851020	Instructions	
015B			1	51302608B0		P2.6 x 8	9048	1	1	1	2818851120	Instructions	
016B	1	1	١.	2963257013	Lid		905B				2963154010	Knob	
020B	1	1 4	1 -	51280306B0		B3 x 6	906B				2963154032	Knob	
020F	4	4	1	51280306U0		B3 × 6	906F	3		1	4113120010	Insulator	
021B	4	4		51480406S9		F4 x 6	907B		1	i .	2963154022	Knob	
022B	4	~	7	3140040000	1 : 1125.15		907F			1	2970005010	Clamper	
0000	ء ا	6	6	2979259030	Bushing		9078				2577854012	Guarantee Card	
023B			1 -	2978259060			9078		1	1	9630000180	Guarantee Card	
023F	1	Ι.		2970101010			908B			- 1		Knob	
025F			1 .										
031E							908F			2	51100314S9		B3 x 14
			3		1	B3 x 6	9088	ŧ	1	1	9650000050	S. Station Card	
032F		- 1				B3 × 6	9098		1	1			
036E	- 1				1	B4 x 10	9108	1			2818854022		
036F	- 1	- 1	- 1			B3 x 6	9108		1	- 1	2818854040		
0386							9118			1	2731821010	Silicagel	
550	1												
0398	3 4				1 _	P4 x 10	11						
039		2 2				D2 v C							
040F			4		1	B3 × 6							
041		1 4				B3 x 6							
043		2 2	2   2	5110030689	B. H. M. Screw,	B3 x 6	$\Pi$						
	- 1	- 1	- 1		I .		1.1	- 1	- 1	- 1			

• (U) for U.S.A.

•	(C)	for	Canada
•	(E)	for	Europe

913S 913S 913S 915S 917B 917B 917S		C		PART NO.	DESCRIPTION	REF.		Q'1		PART NO.	DESCRIPTION
913S 915S 917B 917B 917S	1		-								
913S 915S 917B 917B 917S	1			1		_	+	+-	+	ļ	
913S 915S 917B 917B 917S	'			2818851040	Instructions	CE27	1	1	1 1	DF16104010	Film Cap., 0.1µF ±20% 50V
915S 917B 917B 917S	1	1	1	2818851140	Instructions	CE28	t	1		DF16104010	Film Cap., 0.1 µF ± 20% 50V
917B 917B 917S	1	'	ł	9560000042		CE29		1		DF15273010	Film Cap., 0.027µF ±5% 50V
917B 917S	1	4	1		Hang Tag	CE30		1	- 1	DF15273010	
9178	'	1		2963160214	Bracket	CE31	1	1		DF15273010	
			1	2963160223	Bracket		1	1	- 1		· · ·
	1			2963851010	Instructions	CE32		1	1 .	DF15823050	
9178		1	1	2963851310	Instructions	CE33	1	1		EA10705090	Electrolytic Cap., 100µF 50V
918S	١.	1		2886851100	Instructions	CE81	1	1		EA22605090	Electrolytic Cap., 22µF 50V
9188	1	ŀ	]	2963851020	Instructions	CE82	1	1	)	EA22605090	Electrolytic Cap., 22μF 50V
9185			1	2963851030	Instructions	CE83	1	1	- 1	EA10701090	Electrolytic Cap., 100μF 10V
0400			4.0	E4 000000110	D.I. T	CE84	1	1	1	EA10701090	Electrolytic Cap., 100μF 10V
	14		16	51280308U0	B.H. Tapped Screw, B3 x 8	0505	1	١.		DD45400040	0
9198		1		2963851050	Instructions	CE85	1	1		DD15400010	Ceramic Cap., 40pF ±5% 50V
	1			2963265010	Indicator	CE86		1		DD15400010	Ceramic Cap., 40pF ±5% 50V
921B		1		2963265020	Indicator	CE87	1	1	- 1	EA22605090	Electrolytic Cap., 22µF 50V
921B			1	2963265030	Indicator	CE88	1	1	1	EA47405090	Electrolytic Cap., 0.47μF 50V
9225	3			9522815010	Serial No. Card	JE01	1	1	- 1	YP06001040	Plug, Input Basepost
922S	ł		3	9523015110	Serial No. Card	JE02	1	1		YJ06001240	Jack, Input
922S		3	Į	9523015120	Serial No. Card	JE03	1	1	í	YP06001050	Plug, Output Basepost
923S		2	2	9510901020	Label	JE04	1	1	1	YJ06001250	Jack, Output
924B	1	1		1455259030	Bushing						
									1		PE00 TONE CONTROL BOARD
924B			1	1455259040	Bushing	PE00	1	1	1	YK29631310	P.W. Board
925B	1	1	2	62040029W0	Lug		1	1	1	ZZ29631310	P.W. Board Assembly
930B	1			2991861010	Label						
931B	1		1	2578861010	Label	QE01	1	1	1	HT312222B0	Transistor, 2SC1222 (U or E)
931B		1		2911861110	Label	QE02	1	1		HT312222B0	Transistor, 2SC1222 (U or E)
932B		1		2911861143	Label	QE03	1	1	1	HT107502B0	Transistor, 2SA750 (U or E)
932B	1	'	1	2932861012	Label	QE04	1	1	4	HT107502B0	Transistor, 2SA750 (U or E)
933B	•	1	٠,	9510911010	Label	QE05	1	i	1	HT312222B0	Transistor, 2SC1222 (U or E)
933B	1	'		9511101010	Label	QE06	1	i	- 1	HT312222B0	Transistor, 2SC1222 (U or E)
935B	•	1		2911861270	Label	QE07	1	1		HT107502B0	Transistor, 2SA750 (U or E)
9000		۱'∣		2911001270	Label	QE08	1	1	1		
936B				2011061012	1-4-1		1	1		HT107502B0	Transistor, 2SA750 (U or E) Resistor. 2.2k $\Omega$ ±5% %W
1		1	_	2911861012	Label	RE01	1	1		RT05222140	
936B			2	51280306U0	B.H. Tapped Screw, B3 x 6	RE02	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\% \text{ WW}$
937B		1		2911861192	Label	2500		١.		575545446	5010 500 100
938B		1		2911861162	Label	RE03	1	1	ł	RT05154140	Resistor, $150k\Omega \pm 5\%$ %W
						RE04	1	1	-	RT05163140	Resistor, $16k\Omega \pm 5\%         $
	1	1	1	EE47405040	Electrolytic Cap., 0.47μF ±20% 50V	RE05	1	1	1	RT05564140	Resistor, $560k\Omega \pm 5\%         $
- 1	1	1	1	EE47405040	Electrolytic Cap., 0.47µF ±20% 50V	RE06	1	1		RT05564140	Resistor, $560k\Omega \pm 5\%         $
	1	1	1	EE47505040	Electrolytic Cap., 4.7 µF ± 20% 50V	RE07	1	1		RT05123140	Resistor, $12k\Omega \pm 5\%         $
	1	1	1	EE47505040	Electrolytic Cap., 4.7µF ±20% 50V	RE08	1	1		RT05123140	Resistor, $12k\Omega \pm 5\%$ %W
	1	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V	RE09	1	1		RT05102140	Resistor, $1k\Omega \pm 5\%$ %W
CE08	1	1	1	DD16201010	Ceramic Cap., 200pF ±10% 50V	RE10	1	1	1	RT05102140	Resistor, $1k\Omega \pm 5\%$ %W
CE09	1	1	1	DF15152010	Film Cap., 1500pF ±5% 50V	RE11	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ %W
CE10	1	1	1	DF15152010	Film Cap., 1500pF ±5% 50V	RE12	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ %W
CE11	1	1	1	DF15562010	Film Cap., 5600pF ±5% 50V		Į	Ì			
CE12	1	1	1	DF15562010	Film Cap., 5600pF ±5% 50V	RE15	1	1	1	RT05224140	Resistor, $220k\Omega \pm 5\%$ ¼W
						RE16		1	1	RT05224140	Resistor, $220k\Omega \pm 5\%$ ¼W
CE13	1	1	1	DF15333010	Film Cap., 0.033μF ±5% 50V	RE17			1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W
1	1	1		DF15333010	Film Cap., 0.033µF ±5% 50V	RE18			1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W
	1	1		DF15333010	Film Cap., 0.033µF ±5% 50V	RE19		ı	1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ ¼W
	1	i	1	DF15333010	Film Cap., 0.033µF ±5% 50V	RE20	1		1	RT05752140	Resistor, $7.5k\Omega \pm 5\%$ %W
	1	i		DF15682010	Film Cap., 6800pF ±5% 50V	RE21	1	ı		RT05123140	Resistor, $12k\Omega \pm 5\%$ %W
	1	1		DF15682010	Film Cap., 6800pF ±5% 50V	RE22	i	1	1	RT05123140	Resistor, $12k\Omega \pm 5\%$ ¼W
1	1	1		EA47405090		RE23	1	1		RT05123140	
	1	1	1			RE24		1	1		
			1	EA47405090 EA33505090		11224	1	'	1	RT05103140	Resistor, $10k\Omega \pm 5\%$ %W
	1	1	1		Electrolytic Cap., 3.3µF 50V	DEST	4		4	DTOF474440	Periote 4701-0 E0/ 1/181
CE22	1	1	1	EA33505090	Electrolytic Cap., 3.3μF 50V	RE25	1	1		RT05474140	Resistor, $470k\Omega \pm 5\%$ %W
050-			ا ا	DEAFTOCATO	F11 0	RE26	1	1	1	RT05474140	Resistor, $470k\Omega \pm 5\%$ %W
	1	1	1	DF15103010	Film Cap., 0.001μF ±5% 50V	RE27	1	1		RT05752140	Resistor, $7.5k\Omega \pm 5\% ^{\prime}\text{W}$
CE26	1	1	1	DF15103010	Film Cap., 0.001µF ±5% 50V	RE28	1	1		RT05752140	Resistor, $7.5k\Omega \pm 5\%         $
						RE29	1	1	1	RT05123140	Resistor, $12k\Omega \pm 5\%$ %W
				<u>.                                    </u>							

REF. ESIG.		C	/ E	PART NO.	DESCI	RIPTION		
	-	_	_					
RE30	1	1	1	RT05123140	Resistor,	$12k\Omega$	±5%	1/4W
RE31	1	1	1	RT05684140	Resistor,	680kΩ	±5%	1/4W
RE32	1	1	1	RT05684140	Resistor,	680kΩ	±5%	1/4W
RE33	1	1	1	RT05273140	Resistor,	$27k\Omega$	±5%	1/4W
RE34	1	i	i	RT05273140	Resistor,	$27k\Omega$	±5%	1/4W
	1	i	i	RT05224140	Resistor,	220kΩ	±5%	1/4W
RE35	1		ı ·		•	220kΩ	±5%	1/4W
RE36	1	1	1	RT05224140	Resistor,			1/4W
RE37	1	1	1	RT05682140	Resistor,	6.8kΩ	±5%	
RE38	1	1	1	RT05682140	Resistor,	$6.8$ k $\Omega$	±5%	1/4W
RE39	1	1	1	RT05103140	Resistor,	10k $\Omega$	±5%	1/4W
RE40	1	1	1	RT05103140	Resistor,	10kΩ	±5%	1/4W
RE41	1	1	1	RT05822140	Resistor,	8.2kΩ	±5%	1/4W
RE42	1	1	1	RT05822140	Resistor,	8.2kΩ	±5%	1/4W
	1 -	1 -		RT05361140	Resistor,	360Ω	±5%	1/4W
RE43	1	1	1			$360\Omega$	±5%	1/4W
RE44	1	1	1	RT05361140	Resistor,			1/4W
RE45	1	1	1	RT05334140	Resistor,	330kΩ	±5%	
<b>RE46</b>	1	1	1	RT05334140	Resistor,	$330k\Omega$	±5%	¼W
RE47	1	1	1	RT05273140	Resistor,	$27k\Omega$	±5%	1/4W
RE48	1	1	1	RT05273140	Resistor,	$27k\Omega$	±5%	1/4W
RE49	1	1	1	RT05432140	Resistor,	$4.3k\Omega$	±5%	1/4W
255	_			DT0E422140	Posietor	4.3kΩ	±5%	½W
RE50	1	1	1	RT05432140	Resistor,		±5%	1/4W
RE51	1	1	1	RT05102140	Resistor,	1kΩ		
RE52	1	1	1	RT05102140	Resistor,	1kΩ	±5%	1/W
RE53	1	1	1	RT05225140	Resistor,	$2.2M\Omega$	±5%	1/4 W
RE54	1	1	1	RT05225140	Resistor,	$2.2M\Omega$	±5%	1/4W
RE55	1	1	1	RT05753140	Resistor,	$75k\Omega$	±5%	1/4W
RE56	1	1	1	RT05753140	Resistor,	75kΩ	±5%	1/4W
	1 .		1 1	RT05105140	Resistor,	1MΩ	±5%	1/4W
RE57	1	1	1		1	1MΩ	±5%	1/4W
RE58 RE59	1	1	1	RT05105140 RT05151140	Resistor, Resistor,	150Ω	±5%	1/4W
11600	'	'	,					
RE60	ł	1	1	RT05151140	Resistor,	150Ω	±5%	
RE63	1	1	1	RT05151140	Resistor,	150Ω	±5%	1/4W
RE64	1	1	1	RT05151140	Resistor,	150Ω	±5%	1/4W
<b>RE65</b>	1	1	1	RS05030320	Variable Resist		Ω Bala	
<b>RE66</b>	1	1	1	RM05030670	Variable Resist		Ω Volu	
RE67	1 -	1	1	RS01040040	Variable Resist		Ω Treb	le
	1	1	1	RS01040040	Variable Resist	-	Ω Mid	
RE68	1 .	1 '	1 1		Variable Resist		Ω Bass	
RE69		1	1	RS01040040		or, 100π		1/4W
RE81 RE82	1	1	1	RT05102140 RT05102140		1 kΩ	±5%	14W
		'				mac: =	. 50/	1/10
RE83	1	1	1	RT05564140	Resistor,	560kΩ	±5%	1/4 W
<b>RE84</b>	1	1	1	RT05564140	Resistor,	$560k\Omega$	±5%	14W
SE01	1	1		SR04050100	Rotary Switch	, Mode		
SE02			1		Pushswitch,	Loudness	8	
		- 1	- 1	SP04010210	Pushswitch,	Tone De		
SE03	1		í			High Filt		47
SE04		- 1	- 1	SP04010210	Pushswitch,			
SE05			1 .	SP04010210	Pushswitch,	Low Filt	er, our	
CJ01	1	1	1	DK18203010		$0.02\mu$ F		50V
<b>CJ02</b>	1	1	1	DK18203010	Ceramic Cap.,	$0.02\mu$ F		50\
JJ01	1	1	1	YT02040150	Terminal,	Phono 1	,2 Input	t
1100	1	1	1	YT02040150	Terminal,	Tuner A	ux Inpu	t
JJ02	'	'	1		1	Tape 1 I		
1103	1.	۔ ا	- 1 -			Tape 1	nout O	itput
1103	1	1		YT02040150	1			
JJ04			1			Tape 2 I		
<b>JJ04</b>	1	1		YT02040150	Terminal,	Tape 2		utput
JJ05	1	1	1	YJ06000400	Jack,	10P Con	nector	
JJ06	1			1		10P Con	nector	
		- 1	1	-1	1			

REF. DESIG.		C	E	PART NO.	DES	SCRIPTION		
					DIGG INDUT	TERMINAL	ROAI	3D
D.100		.	1	YF29630010	P.W. Board	IEMMINA	. DOA	
PJ00	1	1	1	ZZ29631010	P.W. Board A	ssembly		
	'	1	1	ZZ29638010	P.W. Board A			
				DT05304440	Docistor	390kΩ	±5%	¼W
RJ01			1	RT05394140 RT05394140	Resistor, Resistor,	390kΩ	±5%	1/4W
RJ02 RJ03			1	RT05394140	Resistor,	390kΩ		1/4W
RJ04			1	RT05394140	Resistor,	390kΩ	±5%	14W
RJ05			1	RT05104140	Resistor.	100k $\Omega$	±5%	1/4W
RJ06			1	RT05104140	Resistor, Resistor,	100kΩ	±5%	1/4W
RJ07			1	RT05104140	Resistor,	100kΩ	±5%	14W 14W
RJ08			1	RT05104140	Resistor,	100kΩ	±576	/4 4 4
JNO1	_	0	_	V 106001530	Jack,	TR Socket		
80NL	8	8	8	YJ06001530	Jack,	TH GOOKS!		
							NDD.	
						OCKET BO	KD	
PN00	1	1	1	YF29630020 ZZ29630020	P.W. Board P.W. Board A	Vecembly		
	1	1	'	2229630020	F.W. Board A	433CITIDITY	2	
JN01								
\ \	1	1	1	YJ06001530	Jack			
300K				-				
JS01	1	1	1	YJ01000860	Jack,	Headphone		
					,		0400	
				VV20021220		SWITCH B	UARD	
PS00	1	1	1	YK29631320 ZZ29631320	P.W. Board	Assembly		
	'	'	<b>'</b>	2225001020		133311		
RS01	1	1	1	GJ05331020	Resistor,	330Ω		2V 2V
RS02	1	1	1	GJ05331020	Resistor,	330Ω		11
RS03	1	1	1	GJ05151010	Resistor,	150Ω 150Ω		
RS04		1	1	GJ05151010 SP08020030	Resistor, Pushswitch,	Speaker	20,0	• •
SS01 CT01	1	1	1	DF16103010	Film Cap	0.01µF	±10%	50
CT02	1	1	1	DF16103010	Film Cap.,	0.01#⊢	±10%	50
CT03	1	1	1	DF16103010		0.01µF	±10%	50
CT04	1 '	1	1	DF16103010	Film Cap.,	0.01µF	±10%	50
CT09	1	1	1	EE22601640	Electrolytic	Cap., 22μF		16
CT10	1	1	1	EE22601640	Electrolytic	Cap., 22μF		16
CT11	4	1	1	EE22601640	Electrolytic	Cap., 22µF		16
CT12	1 '	1	1	EE22601640	Electrolytic	Cap., 22µF		16
QT01			1	HT309452A0	Transistor,	2SC945	Q or R	)
QT02	1	1	1	HT309452A0			Q or R	
QT03		1	1	HT107332A0	1	20,	(Q or R (Q or R	
QT04	1	1	1	HT107332A0		20, 1, 00	(Q OI N	′
QT05		1	1	HD20011050		1S1555 1S1555		
QT06	3	1				181555		
		1.						
QT08	- 1	1	1	1		1S1555 1S1555		
QT09	1	1	•			181555		
QT10	- 1	1	1 -			181555		
QT12		1	1 '			181555		
QT13		1 .	- 1			182471		
QT14		- 1	1			152471		
QT15		1.	- 1			152471		
QT16	1	- 1	- 1			1S2471 3.3kΩ	±5%	1
RTO	1		'	000002120	Tiosiator,			
RT0	1	- 1 -	- 1		_	3.3kΩ		
RT0	7   1	1	1	GU0533212	Resistor,	3.3kΩ	±5%	, ,

- (U) for U.S.A.(C) for Canada(E) for Europe

REF.	(	2'T	Y			REF.	_	)T		PART
DESIG.				PART NO.	DESCRIPTION	DESIG.	U	С	E	PARI
DTOO	1	1	1	CH0E222400	Paristan 2.21/0 / F0/ 1/W	W001	1	1		YC024
RT08 RT09	1	1	1	GU05332120 GU05432120	· · · · · · · · · · · · · · · · · · ·	C401		- 1	1	EE2250
	ı	1	1	1		C402	1	1	1	EE2250
RT10	1	1	1 .	GU05432120	·	C403	1	1	1	DD121
RT11	1	1	1	GD05201140		C404	1	i	i .	DD121
RT12	1	1	1	GD05201140		C405	1	1	1	EV336
RT13	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%$ ¼W	C406	1	1	1	EV336
RT14	1	1	1	GD05201140		C409	1	1	i	EA476
RT15	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\%         $	C410	1	1	1	EA476
RT16 RT17	1	1	1	GD05201140 GD05201140	Resistor, $200\Omega \pm 5\%         $	C410	1	1	1	DD162
						C412	1	1	1	DD162
RT18	1	1	1	GD05201140	Resistor, $200\Omega \pm 5\% \text{ WW}$	C413	1	1	1	EE3350
RT19	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ %W	C414	1	1	i	EE3350
T20	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ %W	C415	1	1	i	EE4750
Γ21	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ %W		- 1	1	i	
Γ22	1	1	1	GD05820140	Resistor, $82\Omega \pm 5\%$ %W	C416	1			EE4750
/01	1	1	1	YJ01000860	Jack, Microphone L-ch.	C417	1	1	1	DD161
/02	1	1	1	YJ01000860	Jack, Microphone R-ch.	C418	1	1	1	DD161
						C419	1	1	1	DF6539
		Į			PV00 MIC JACK BOARD	C420	1	1	1	DF6539
00	1	1	1	YK29631330	P.W. Board	C421	1	1	1	DF1412
. 55	1	1	1	ZZ29631330			-	Į		
	•	'	'	2229031330	P.W. Board Assembly	C422	1	1	1	DF141:
	_			504000101	51	C423	1	1	1	DF1556
01	1	1	1	EQ10601610	Electrolytic Cap., 10µF ±10% 16V	C424	i	1	1	DF1556
002	1	1	1	EQ10601610	Electrolytic Cap., 10µF ±10% 16V	1	- 1			
01	1	1		FS10400050	Fuse, 30mm	C425	1	1	1	DD1610
01			1	FS10400800	Fuse, SEMKO (20mm Type) 4AT	C426	1	1	1	DD1610
01	1			BF10400040	Cap. Comp.	C427	1	1	1	EA107
	'	1		BF33300020		J401	1	1	1	YP0600
01		1			Cap. Comp., 0.033μF+120Ω ECQ-JC	J402	1	1	1	YP0600
001			1	DO07473540	Oil-Paper Cap., ECN-C4A SEMKO				Ť	
02			1	BF33300010	Cap. Comp., $0.033\mu\text{F}+120\Omega$ AC					
01						P400	1	1	1	YG2963
)4	4	4	4	YJ04000560	Jack, AC Outlet	F400	1	1	1	ZZ2963
						P407	4	4	4	344411
005			1	YJ08000220	Jack, Fuse Holder (20mm Type)		. 1			
05	1	1		YJ08000230	Jack, Fuse Holder	Q401	1	1	1	HT317
6			1	YT01010050	Terminal, Ground	Q402	1	1	1	HT317
7			1	BY03110010	Plug, Voltage Selector	Q403	1	1	1	HT317
3			1	YL09030010	Terminal,3P	Q404	1	1	1	HT3177
1	1	1	1	YT02040170	Terminal, Pre In, Main Out	Q405	1	1	1	HT3177
22	1	1	1	YT03040160	Terminal, Speaker	Q406	1	1	1	HT3177
- 1	i		1		·	R401	1	i	1	RT0562
23		1	3	YT03040160	Terminal, Speaker	R402	1	i	1	
4	1	1	1	YJ05000250	Jack, LED Socket	,		- 1		RT0562
25	1	1	1	YT01010050	Terminal, Ground	R403 R404	1	1	1	RT0522
01	1	1		TS60506010	Power Transformer, 120V 60 Hz	11404	•	'	'	RT0522
001			1	TS60506020	Power Transformer, SEMKO	R405	1	1	1	RT0533
021	1	1	1	HT405882B0	Transistor, 2SD588 (Q or R)	R406	1	1	1	RT0533
022			1			R407	1	1	1	RT0568
	1	1		HT405882B0	Transistor, 2SD588 (Q or R)	R408	1	1	i	RT0568
23	1	1	1	HT40588280	Transistor, 2SD588 (Q or R)		- 1	- 1		
024	1	1	1	HT405882B0	Transistor 2SD588 (Q or R)	R409	1	1	1	RT0543
025	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R410	1	1	1	RT0543
026	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R411	1	1	1	RT0262
027	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R412	1	1	1	RT0262
028	1	1	1	HT206182B0	Transistor, 2SB618 (Q or R)	R413	1	1	1	RT0568
						R414	1	1	1	RT0568
0029	1	1	1	HI10004030	L.E.D., SLP-132P	R415	1	1	1	RT0582
001	1	1		SP02010280	Pushswitch, Power		- 1			
001			1	SP02010300	Pushswitch, SEMKO	R416	1	1	1	RT0582
002	1	1	1	SS02020380	Slide Switch, DC/AC Coupling	R417	1	1	1	RT0510
/001			1	YC01900030	A.C. Power Cord	R418	1	1	1	RT0510
						R419	1	1	1	RT0556
•										
		1	1	1	1		- 1			

REF. DESIG.	-	D'T	Y	PART NO.	DESCRIPTION
		_	-		
W001	1	1		YC02400220	A.C. Power Cord
C401	1	- 1	1	EE22505040	Electrolytic Cap., 2.2µF ±20% 50V
C402	1	1	1	EE22505040	Electrolytic Cap., 2.2µF ±20% 50V
C403	1	1	1	DD12100010	Ceramic Cap., 10pF ±5% 50V
C404	1	1	1	DD12100010	Ceramic Cap., 10pF ±5% 50V
C405	1	1	1	EV33600660	Electrolytic Cap., 33µF ±20% 6.3V
C406	1	1	1	EV33600660	Electrolytic Cap., 33µF ±20% 6.3V
C409	1	1	1	EA47601090	Liectionytic Cap., 47,60
C410 C411	1	1	1	EA47601090	Libertoly tie Cup., Tip.
C411	'	'	'	DD16200010	Ceramic Cap., 20pF ±10% 50V
C412	1	1	1	DD16200010	Ceramic Cap., 20pF ±10% 50V
C413	1	1	1	EE33505040	Electrolytic Cap., 3.3µF ±20% 50V
C414	1	1	1	EE33505040	Electrolytic Cap., 3.3µF ±20% 50V
C415	1	1	1	EE47505040	Electrolytic Cap., 4.7µF ±20% 50V
C416	1	1	1	EE47505040	Electrolytic Cap., 4.7µF ±20% 50V
C417	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C418	1	1	1	DD16101010	Octamic Cap.,
C419 C420	1	1	1	DF65391500	Tim Cap.,
C420	1	1	1	DF65391500 DF14122010	Tim Cap.,
0421	'	'	'	DF14122010	Film Cap., 1200pF ±2% 50V
C422	1	1	1	DF14122010	Film Cap., 1200pF ±2% 50V
C423	1	1	1	DF15562010	Film Cap., 5600pF ±5% 50V
C424	1	1	1	DF15562010	Film Cap., 5600pF ±5% 50V
C425	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C426	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V
C427	1	1	1	EA10710010	Electrolytic Cap., 100µF 100V
J401	1	1	1	YP06000400	Plug
J402	1	1	1	YP06000400	Plug
P400	1	1	1	YG29630012	P400 PHONO AMP. BOARD
1 400	1	i	1	ZZ29630010	P.W. Board Assembly
P407	4	4	4	3444118050	Spacer, for R435, R436
Q401	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q402	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q403	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q404	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q405	1	1	1	HT317751F0	Transistor, 2SC1775A F
Q406	1	1	1	HT317751F0	Transistor, 2SC1775A F
R401	1	1	1	RT05623140	Resistor, $56k\Omega \pm 5\% \text{ 4W}$
R402	1	1	1	RT05623140	Resistor, $56k\Omega \pm 5\%         $
R403	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\%$ %W Resistor $2.2k\Omega \pm 5\%$ %W
R404	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\%$ ¼W
R405	1	1	1	RT05334140	Resistor, 330kΩ ±5% ¼W
R406	1	1	1	RT05334140	Resistor, $330k\Omega \pm 5\%$ ¼W
R407	1	1	1	RT05684140	Resistor, $680k\Omega \pm 5\%$ ¼W
R408	1	1	1	RT05684140	Resistor, $680k\Omega \pm 5\%         $
R409	1	1	1	RT05433140	Resistor, $43k\Omega \pm 5\% \text{ WW}$
R410	1	1	1	RT05433140	Resistor, $43k\Omega \pm 5\%         $
R411	1	1	1	RT02621140	Resistor, $620\Omega \pm 2\% \text{ WW}$
R412	1	1	1	RT02621140	Resistor, $620\Omega \pm 2\%$ ½W
R413	1	1	1	RT05683140	Resistor, $68k\Omega \pm 5\%$ ¼W
R414	1	1	1	RT05683140	Resistor, $68k\Omega \pm 5\%$ %W
R415	1	1	1	RT05822140	Resistor, 8.2kΩ ±5% %W
R416	1	1	1	RT05822140	Resistor, $8.2k\Omega \pm 5\%$ ¼W
R417	1	1	1	RT05101140	Resistor, $100\Omega \pm 5\%$ %W
R418	1	1	1	RT05101140	Resistor, 100Ω ±5% ¼W
R419	1	1	1	RT05562140	Resistor, $5.6k\Omega \pm 5\%$ %W

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REF. DESIG.	U	C	E	PART NO.	DESCRIPTION	N		DESIG.				PART NO.	DI	ESCRIPTION		
B420	1	1	1	DT05560140	Besistor ESLO	±5%	½W	J701	1	1	1	YP06001040	Plug,	3P		
R420 R421	1	1	1	RT05562140 RT05224140	Resistor, 5.6k $\Omega$ Resistor, 220k $\Omega$	±5%	14W	J702	1	1	1	YP06001040	Plug,	3P		
R422	1	1	1	RT05224140	Resistor, $220k\Omega$	±5%	1/4W	J705	1	1	1	YP06000540	Plug,	6P (SMK)		
R423	1	1	1	RT02683140	Resistor, $68k\Omega$	±2%	1/4W	L701	1	1	1	LL23915120	Choke Coil			
R424	1	1	1	RT02683140	Resistor, $68k\Omega$	±2%	1/4W	L702	1	1	1	LL23915120	Choke Coil			
R425	1	1	1	RT02101140	Resistor, $100\Omega$	±2%	¼W									
R426	1	1	1	RT02101140	Resistor, $100\Omega$	±2%	1/4W						P700 MAIN	AMP. BOAF	RD	
R427	1			RT02473140	Resistor, 47kΩ	±2%	1/4W	P700	1	1	1	YG29640020	P.W. Board			
R428	1	1	1	RT02473140	Resistor, 47kΩ	±2%	14W	1	1	1	1	ZZ29631020	P.W. Board A	ssembly	i	
R429	1	1	1	RT02824140	Resistor, $820k\Omega$	±2%	14W							20144.00	(C == D)	
								Q701	1	1	1	HC10003200	IC,	2SK109	(C or D) (C or D)	
R430	1	1	1	RT02824140	Resistor, 820k $\Omega$	±2%	14W	0702	1	1	1	HC10003200	IC,	2SK109 2SC1775A	(D or E)	
R431	1	1	1	RT05225140	Resistor, $2.2M\Omega$	±5%	1/4W	Q703 Q704	1	1	1	HT317752D0 HT317752D0		2SC1775A		
R432	1	1	1	RT05225140	Resistor, $2.2M\Omega$	±5%	1/4W	Q705	1	1	1	HT317752D0	Transistor, Transistor,	2SC1775A		
R433	1	1	1	RT05271140	Resistor, $270\Omega$	±5%	1/4W	Q706	1	1	1	HT317752D0	Transistor,	2SC1775A	(D or E)	
R434	1	1	1	RT05271140	Resistor, $270\Omega$	±5%	1/4W	Q707	1	1	i	HT317752D0	Transistor,	2SC1775A	(D or E)	
R435	1	1	1	GF05101140	Resistor, $100\Omega$	±5%	1/4W	0708	1	1	i	HT317752D0	Transistor,	2SC1775A	(D or E)	
R436	1	1	1	GF05332120 SR09070010	Resistor, $3.3k\Omega$ Rotary Switch, Selecto		1/2W	0709	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
S401 S402	1	1	1	SR02030060	Rotary Switch, Selector Rotary Switch, Tape M			Q710	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
C701	1	1	1	DF65101010	Film Cap., 100pF	±5%	50V									
0,01	•	•	'	DI 03101010	тип сар., тоорт	2370	301	Q711	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
C702	1	1	1	DF65101010	Film Cap., 100pF	±5%	50V	Q712	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
C703	1	1	1	DF65162010	Film Cap., 1600pF	±5%	50V	Q713	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
C704	1	1	1	DF65162010	Film Cap., 1600pF	±5%	50V	Q714	1	1	1	HT108722D0	Transistor,	2SA872A	(D or E)	
C705	1	1	1	DF16473010	Film Cap., 0.047µF		50V	Q715	1	1	1	HT317752D0	Transistor,	2SC1775A	(D or E)	
C706	1	1	1	DF16473010	Film Cap., 0.047μF	±10%	50V	Q716	1	1	1	HT317752D0	Transistor,	2SC1775A	(D or E)	
C707	1	1	1	EA22603590	Electrolytic Cap., 22µF		35V	Q717	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)	
C708	1	1	1	EA22603590	Electrolytic Cap., 22µF		35∨	Q718	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F)	
C709	1	1	1	DD15500500	Ceramic Cap., 50pF		500∨	Q719	1	1	1	HT108722E0	Transistor,	2SC872A	(E or F) (E or F)	
C710	1	1	1	DD15500500	Ceramic Cap., 50pF	±5%	500V	Q720	1	1	1	HT108722E0	Transistor,	2SC872A	(E OI II)	
C711	1	1	1	DF17104540	Film Cap., $0.1\mu$ F		100∨	Q721	1	1	1	HT109142B0	Transistor,	2SA914	(R or S)	
					EII 0 04 E		40014	0722	i	1	1	HT109142B0	Transistor,	2SA914	(R or S)	
C712	1	1	1	DF17104540	Film Cap., 0.1μF		100V	Q723	1	1	1	HT319532B0	Transistor,	2SC1953	(R or S)	
C713	1	1	1	DF17104540	Film Cap., 0.1 µF		100V 100V	Q724	1	1	1	HT319532B0	Transistor,	2SC1953	(R or S)	
C714 C715	1	1	1	DF17104540 EA22603590	Film Cap., $0.1\mu$ F Electrolytic Cap., $22\mu$ F		100V	Q725	1	1	1	HT319132B0	Transistor,	2SC1913	(R or S)	
C716	1	1	1	EA22603590	Electrolytic Cap., 22µF		100V	Q726	1	1	1	HT319132B0	Transistor,	2SC1913	(R or S)	
C717	1	1	1	DF65301510	Film Cap., 300pF	±5%	1001	Q727	1	1	1	HT109132B0	Transistor,	2SA913	(R or S)	
C718	1	1	1	DF65301510	Film Cap., 300pF	±5%		Q728	1	1	1	HT109132B0	Transistor,	2SA913	(R or S)	
C719	1	1	1	DF65271510	Film Cap., 270pF	±5%		Q729	1	1	1	HD20011050	Diode,	1S1555		
C720	1	1	1	DF65271510	Film Cap., 270pF	±5%		Q730	1	1	1	HD20011050	Diode,	1S1555		
C721	1	1	1	DF16473010	Film Cap., 0.047μF		50V									
								Q731	1	1	1	HD30046090	Zener,	WZ-310		
C722	1	1	1	DF16473010	Film Cap., $0.047\mu F$	±10%	50V	Q732	1	1	1	HD30046090	Zener,	WZ-310		
C723	1	1	1	EA10605090	Electrolytic Cap., $10\mu F$		50V		1	1	1	HD30046090	Zener,	WZ-310		
C724	1	1	1	EA10605090	Electrolytic Cap., 10µF		50V		1	1	1	HD30046090	Zener,	WZ-310		
C725	1	1	1	DF17104540	Film Cap., $0.1\mu$ F		100V	Q736	1	1	1	HD20011050 HD20011050	Diode, Diode,	1S1555 1S1555		
C726	1	1	1	DF17104540	Film Cap., 0.1μF		100V	Q737	i	i	1	HD20003210	Diode,	1S2471		
C727	1	1	1	DF17104540	Film Cap., 0.1μF		100V	Q738	i		1	HD20003210	Diode,	152471		
C728	1	1	1	DF17104540 DF17104540	Film Cap., 0.1 µF		100V 100V	Q739	1	i	1	HD20003210	Diode,	152471	(Black)	
C729 C730	1	1	1	DF17104540	Film Cap., $0.1\mu$ F Film Cap., $0.1\mu$ F		100V	Q740	i		1	HD20003210	Diode,	152471		
C731	1	1	1	EA47606390	Electrolytic Cap., 47μF		63V		•							
0.01	'	<b>'</b>	'	LA47000000	Listeriory the Capit, 4/#1		00 0	Q741	1	1	1	HV00004120	Varistor,	MV-1		
C732	1	1	1	EA47606390	Electrolytic Cap., 47µF		63V	Q742	1	1	1	HV00004120	Varistor,	MV-1		
C733	1	1		EA47606390	Electrolytic Cap., 47µF		63V	Q743	1	1	1	HV00004120	Varistor,	M V-1		
C734	1	1		EA47606390	Electrolytic Cap., 47µF		63V	Q744	1	1	1	HV00004120	Varistor,	M V-1		
C735	1	1		DF16104010	Film Cap., 0.1μF		50V	Q745	1	1	1	HH00007030	Thermistor,	SDT-100		
C736	1	1	1	DF16104010	Film Cap., 0.1µF		50V	Q746	1		1	HH00007030	Thermistor,	SDT-100		
C737	1		1	DF16104010	Film Cap., 0.1μF		50V	Q747	1	1	1	HH00007030	Thermistor,	SDT-100		
C738	1	1	1	DF16104010	Film Cap., 0.1µF		50V									
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DESIG.	U	G	E							_		_					
0746					The	100			R751	1	1	1	GD05680140	Resistor,	68Ω	±5%	1⁄4W
Q748 Q749	1	1	1	HH00007030	Thermistor SDT- Diode, W06				R752	1	1	1	GD05680140	Resistor,	$68\Omega$	±5%	1/4W
Q750	1	1	1	HD20005010 HD20005010	Diode, W061 Diode, W061			l	R753	1	1	1	GD05470140	Resistor,	$47\Omega$	±5%	1/4W
Q751	1	1	1	HD20005010	Diode, W061				R754	1	1	1	GD05470140	Resistor,	$47\Omega$	±5%	14W
Q752	1	i	1	HD20005010	Diode, W06			- 1	R755	1	1	1	GD05470140	Resistor,	$47\Omega$	±5%	14W
Q753	1	1	1	HD20003210	Diode, 1S24			- 1	R756	1	1	1	GD05470140	Resistor,	$47\Omega$	±5%	1/4W
Q754	1	1	1	HD20003210	Diode, 1S24			1	R757	1	1	1	GD05273140	Resistor,	27kΩ	±5%	1/4W
R701	1	1	1	GD05332140	Resistor, 3.	3kΩ	±5%	1/4W	R758	1	1	1	GD05273140	Resistor,	27kΩ	±5%	1/4W
R702	1	1	1	GD05332140	Resistor, 3.	$3k\Omega$	±5%	1/4W	R759	1	1	1	GF05100140	Resistor,	10Ω	±5%	14W 14W
R703	1	1	1	GD05333140	Resistor, 3	3kΩ	±5%	¼W	R760	1	1	1	GF05100140	Resistor,	10Ω	±5%	/4 V V
R704	1	1	1	GD05333140	Resistor, 3	3kΩ	±5%	¼W	R761	1	1	1	GF05100140	Resistor,	$10\Omega$	±5%	1/4W
R705	1	1	1	GD05821140		$20\Omega$	±5%	1/4W	R762	1	1	1	GF05100140	Resistor,	$10\Omega$	±5%	1/4 W
R706	1	1	1	GD05821140	the state of the s	$20\Omega$	±5%	1/4W	R763	1	1	1	GD05100140	Resistor,	10Ω	±5%	1/4W
R707	1	1	1	GD05821140	· ·	$20\Omega$	±5%	1/4W	R764	1	1	1	GD05100140	Resistor,	10Ω	±5%	1/4W
R708	1	1	1	GD05821140	Resistor, 8	$20\Omega$	±5%	1/4W	R765	1	1	1	GD05100140	Resistor,	10Ω	±5%	14W 14W
R709	1	1	1	GD05101140		$\Omega$ 00	±5%	1/4W	R766	1	1	1	GD05100140 GJ05562010	Resistor, Resistor,	10Ω 5.6kΩ	±5% ±5%	1W
R710	1	1	1	GD05101140		$\Omega$ 00	±5%	1/4W	R767	1	1	1	GJ05562010	Resistor,	5.6kΩ	±5%	1W
R711	1	1	1	GD05513140		1kΩ	±5%	1/4W	R769	1	1	1	GJ05562010	Resistor,	5.6kΩ	±5%	1W
R712	1	1	1	GD05513140 GD05152140		1kΩ 5kΩ	±5% ±5%	14W 14W	R770	1	1	1	GJ05562010	Resistor,	5.6kΩ	±5%	1W
1713	•	'	'	GD05152140	nesistor, 1.	JK22	2370	/4 4 4	D774				CD0540440	Desistan	1000	+E0/	½W
R714	1	1	1	GD05152140	Resistor, 1.	5k $\Omega$	±5%	1/4W	R771	1	1	1	GD05101140 GD05101140	Resistor,	100Ω 100Ω	±5% ±5%	1/4W
R715	1	1	1	GD05823140		$2k\Omega$	±5%	1/4 W	R772	1	1	1	GD05101140	Resistor, Resistor,	100Ω	±5%	1/4W
R716	1	1	1	GD05823140	•	2kΩ	±5%	1/4W	R774	1	1	i	GD05101140	Resistor,	100Ω	±5%	¼W
R717	1	1	1	GD05153140		5kΩ	±5%	1/4W	R775	1	1	1	GF05330140	Resistor,	33Ω	±5%	1/4W
R718 R719	1	1	1	GD05153140		5kΩ	±5%	1/4W	R776	1	1	1	GF05330140	Resistor,	$33\Omega$	±5%	14W
R720	1	1	1	GD05102140 GD05102140		1kΩ 1kΩ	±5% ±5%	1/4W	R777	1	1	1	GF05330140	Resistor,	$33\Omega$	±5%	1/4W
R721	i	1	1	GD05473140	· · · · · · · · · · · · · · · · · · ·	7kΩ	±5%	1/4W	R778	1	1	1	GF05330140	Resistor,	$33\Omega$	±5%	¼W
R722	1	1	1	GD05473140	•	7kΩ	±5%	1/4W	R779	1	1	1	GF05240120	Resistor,	$24\Omega$	±5%	1/2W
R723	1	1	1	GD05132140	•	3kΩ	±5%	1/4W	R780	1	1	1	GF05240120	Resistor,	24Ω	±5%	1/2W
R724	1	1	1	GD05132140	Resistor, 1.3	3kΩ	±5%	14W	R781	1	1	1	GF05240120	Resistor,	$24\Omega$	±5%	1/2W
R725	1	1	1	GD05223140		2kΩ	±5%	14W	R782	1	1	1	GF05240120	Resistor,	$24\Omega$	±5%	1/2W
R726	1	1	1	GD05223140		2kΩ	±5%	1/4W	R783	1	1	1	RT05033140	Resistor,	$3.3\Omega$	±5%	1/4W
R727	1	1	1	GJ05222010	· ·	2kΩ	±5%	1/4W	R784	1	1	1	RT05033140	Resistor,	$3.3\Omega$	±5%	¼W
R728	1	1	1	GJ05222010		2kΩ	±5%	1/4W	R785	1	1	1	RT05033140	Resistor,	$3.3\Omega$	±5%	1/4W
R729	1	1	1	GJ05152010	Resistor, 1.5	5k $\Omega$	±5%	14W	R786	1	1	1	RT05033140	Resistor,	$\Omega$ 8.8	±5%	1/4W 3W
R730	1	1	1	GJ05152010	Resistor, 1.5	5k $\Omega$	±5%	14W	R787	1	1	1	GW10332030	•	0.33Ω		3W
R731	1	1	1	GD05153140		5k $\Omega$	±5%	1/4W	R788	1	1	1	GW10272030 GW10332030		<b>0.27</b> Ω <b>0.33</b> Ω		3W
R732	1	1	1	GD05153140		5kΩ	±5%	1/4W	R789 R790	1	1	1	GW10332030		0.33Ω		3W
R733	1	1	1	GD05153140	Resistor, 15	5kΩ	±5%	1/4W	1,,,,,	•		,	37770002000				
R734	1	1	1	GD05153140	Resistor, 1!	5kΩ	±5%	1/4W	R791	1	1	1	GW10332030		0.33Ω		3W
R735	1	1	1	GD05561140	Resistor, 56	$\Omega$ 06	±5%	14W	R792	1	1	1	GW10332030		0.33Ω		3W
R736	1	1	1	GD05561140	Resistor, 56	$\Omega$ 06	±5%	1/4W	R793	1	1	1	GW10332030		0.33Ω		3W
R737	1	1	1	GD05561140	· ·	$\Omega$ 06	±5%	1/4W	R794	1	1	1	GW10332030	•	0.33Ω 10Ω	±10%	3W
R738	1	1	1	GD05561140		$\Omega$		1/4W	R795 R796	1	1	1	GJ05100030 GJ05100030	Resistor, Resistor,	10Ω	±5%	3W
R739	1	1	1	RA02230050	Trimming Resistor,		2kΩCF		R797	1	1	1	GJ05022020	Resistor,	$2.2\Omega$	±5%	2W
R740	1	1		RA02230050	Trimming Resistor,		2kΩCF	- 1	R798	i	1	i	GJ05022020	Resistor,	2.20		2W
R741	1	1		GD05203140	•	OkΩ	±5%	1/4W	C851	i	1	1	EB10905010	Electrolytic Cap.,			50V
R742 R743	1	1		GD05203140 GD05222140		DkΩ 2kΩ	±5% ±5%	1/4W 1/4W	C852	1	1	1	EB10905010	Electrolytic Cap.,			50V
				•					C853	1	1	1	EB22716010	Electrolytic Cap.,	270	иF	160V
R744	1	1	1	GD05222140		2kΩ	±5%	1/4W	C854	1	1	1	EA10725090	Electrolytic Cap.,		•	25V
R745	1	1	1	GD05222140		2kΩ	±5%	1/4W	C855	1	1	1	DK18103510	Ceramic Cap.,	0.01	•	500V
R746	1	1	1	GD05222140 GD05470140		2kΩ	±5%	1/4W	C856	1	1	1	EA10610010	Electrolytic Cap.,		μF	100V
R748	1	1	1	GD05470140		47Ω 47Ω	±5% ±5%	1/4W	C857	1	1	1	EA47601690	Electrolytic Cap.		μF	16V
R749	1	1		GD05470140	· ·	47Ω	±5%	1/4W	C858	1	1	1	EA22701690	Electrolytic Cap.			16V
R750	i		1	GD05470140		$47\Omega$	±5%	1/4W	C859	1	1	1	EA22605090	Electrolytic Cap.	. 22	μF	50V
				32.33.731.40			- 370		C861	1	1	1	EA22605090	Electrolytic Cap.		$\mu$ F	50V
									C863	1	1	1	EA10616010	Electrolytic Cap.,	. 10	μF	160V
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- (C) for Canada (E) for Europe

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	DESI	G.	U	C	E	PART	NO.		DESCRIPTION	ON	
		$\dashv$	7	$\exists$					_		
	F85	1			1	FS1002	5800	Fuse, SEMK	O (20mm T	vpe) 25	OMA
	J868		1		1	YJ0800		Jack, Fuse	Socket	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, .
	J869	,			1	YJ0800			Socket		
	L85	1	1	1	1	LY4024	0040	Relay			
	1		1	- 1				POEC BOW	ER SUPPLY		
	P850	۱.	1	1	1	YK2963	0210	P.W. Board	ER SUPPLY	BOAI	KD
		.	- 1	1	1	ZZ2963			Assembly		
	[								,		
	Q851	- 4	- 1		1	HD2000			S5VB20 W	/FIN	
_	-0852 -0853				1	HD2001			W06C		
-	Q854	- 1	1		i l	HD2001 HD2001		,	W06C		
	Q855				i	HD2001			W06C 1S1555		
	Q856		- 1		1	HT3094				(Q o	r RI
	Q857	1	1	1	1	HT3094	52A0	Transistor.	2SC945	(0 0	
	Q858	- 1		- 1	1	HT3094	52A0	Transistor,	2SC945	(0 0	
	Q859	1 .			1	HT31913	32B0	Transistor,	2SC1913	(Q o	rR)
	Q860	1	1	1	1	HT3177	52E0	Transistor,	2SC1775A	(E or	· F)
	Q861	1	1	Ι.	1	HD30039	വരവ	Zener,	M7 240		
	0862	1 -	- 1			HD2001		Diode,	WZ-240 1S1555		
	Q863					HD2001		Diode,	W06C		
	R851	1	1	1 1		GJ05101		Resistor,	100Ω	±5%	1W
	R852	4 -	- 1 -	- 1	. 1	RT05562		Resistor,	5.6kΩ		¼W
	R853	1 '	1 -	1		RT05562		Resistor,	$5.6$ k $\Omega$	±5%	¼W
	R854 R855	1 -	1 '	4	. F	RT05822		Resistor,	8.2kΩ		¼W
;	R856	1 -	1 .	- (		RT05563 RT05153		Resistor, Resistor,	56kΩ		¼W
	R857	1 -		- 1		RT05203	-	Resistor,	15kΩ 20kΩ		¼W ¼W
					1			, ,	20146	±370	/4 V V
	R858	1 -	1			RT05682		Resistor,	$6.8$ k $\Omega$	±5%	¼W
	R859	1	1			RT05243		Resistor,	24kΩ	±5%	14W
- 1	R860 R861	1	1			RT05224			220kΩ	±5%	¼W
- [	R862	1	1			RT05104 GF05100		Resistor, Resistor,	100kΩ	±5%	¼W
-	R863	1	1	1 1	- 1	GF05562		Resistor,	10Ω 5.6kΩ	±5% ±5%	%₩ %₩
	R864	1	1	,	- 1	GF05562		Resistor,	5.6kΩ	±5%	1/2W
ı	R865	1	1			RT05560		Resistor,	56Ω	±5%	1/4W
-	R866	1	1	1	9	GJ055620	010	Resistor,	$5.6$ k $\Omega$	±5%	1W
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### 12. TECHNICAL SPECIFICATIONS

# FOR U.S.A. MODEL ONLY AMPLIFIER SECTION: I.M. Distortion (I.H.F. method, 60Hz and 7kHz mixed 4:1 at rated | power output | at 8 ohm load impedance | 0.03% | at 4 ohm load impedance | 0.09% | at 4 ohm load impedance | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | power output) PREAMPLIFIER SECTION: (Dynamic Range is the ratio of input overload to

•	4 ОНМ
	Input Impedance 20k ohm
	Frequency Response
	(includes power amp) 5Hz to 60kHz ±1.0 dE
	Signal-to-Noise Ratio ("A" WEIGHTED)
	(ref. to rated output and 775 mV input) 93 dE
	Output Levels
	Tape Out (ref. 7.75 mV at Phono inputs) 775 mV Pre-Out (ref. 180 mV at Aux inputs) 1.5 v
	(ref. 500 mV at Aux inputs, main amp
	disconnected)
	Output Impedance
	Tape Out 330 ohms
	Pre-Out
	GENERAL:
	Power Requirements 120V AC, 60Hz
	Power Consumption at rated output, both channels
	operating
	Dimensions:
	Panel Width
	Panel Height
	Depth
	Weight:
	Unit alone
	Packed for Shipment

### FOR EUROPEAN MODEL ONLY

ΔΙ	חו	n	SF	ст	ION	

RATED POWER OUTPUT, 1kHz TOTAL HARMONIC DISTORTION AT RAT	ED POWER OUTPUT, 1kHz		W
	IXED 4:1 AT RATED POWER OUTPU	JT)	
LOAD IMPEDANCE		4 OHM	<b>1</b> S
RATED POWER OUTPUT, 1 kHz TOTAL HARMONIC DISTORTION AT RAT	ED POWER OUTPUT, 1 kHz		W
POWER BANDWIDTH, ½ RATED POWER O	IXED 4:1 AT RATED POWER OUTPU UTPUT	JT)	Ηz

Damping Fac	tor, SP Output	
		60
1 kHz		50
12.5 kHz		
Frequency R		
Phono	± 2 dB	±0.5 dB
Aux	±1.5 dB	
Main In	±1.5 dB	
	se Ratio, 1 kHz	
		56 dB
Aux		91 dB
Input Sensiti	vity, 1 kHz (Rated Input Vol	Itage)
Phono		1.8 mV
Main In		1.5 V
Input Imped		
Phono .		47 k ohms
Aux		20 k ohms
Aux Main In		20 k ohms
Aux Main In Phono Equiv	alent Input Noise	20 k ohms 36 k ohms 1.5 μV
Aux Main In Phono Equiv Phono Dyna	alent Input Noise	
Aux	alent Input Noise	
Aux Main In Phono Equiv Phono Dyna Phono Input Channal Bala	alent Input Noise	
Aux Main In Phono Equiv Phono Dynai Phono Input Channal Bala Phono	alent Input Noise	
Aux Main In Phono Equiv Phono Dynai Phono Input Channal Bala Phono Aux	alent Input Noise  nic Range  Capacitance  nce  0 ~ -40 dB  40 Hz ~ 16 kHz	
Aux Main In Phono Equiv Phono Dynar Phono Input Channal Bala Phono Aux Main In	alent Input Noise	
Aux Main In Phono Equiv Phono Dynai Phono Input Channal Bala Phono Aux Main In Interchannel	alent Input Noise	20 k ohms 36 k ohms 1.5 μV 102 dB 2.5 dB 2.5 dB 3.10 dB
Aux Main In Phono Equiv Phono Dynar Phono Input Channal Bala Phono Aux Main In	alent Input Noise nic Range Capacitance nce 0 ~ -40 dB 40 Hz ~ 16 kHz Crosstalk 1 kHz	20 k ohms 36 k ohms 1.5 μV 102 dB 2.5 dB 2.0 dB 1.0 dB 43 dB
Aux Main In Phono Equiv Phono Dynat Phono Input Channal Bala Phono Aux Main In Interchannel Phono	alent Input Noise nic Range Capacitance nce 0 ~ -40 dB 40 Hz ~ 16 kHz Crosstalk 1 kHz 250 Hz ~ 10 kHz	20 k ohms 36 k ohms 1.5 μV 102 dB 2.5 dB 2.0 dB 1.0 dB 43 dB 40 dB
Aux Main In Phono Equiv Phono Dynai Phono Input Channal Bala Phono Aux Main In Interchannel	alent Input Noise  nic Range Capacitance  nce 0 ~ -40 dB 40 Hz ~ 16 kHz  Crosstalk 1 kHz 250 Hz ~ 10 kHz	20 k ohms 36 k ohms 1.5 μV 102 dB 2.5 dB 2.0 dB 1.0 dB 43 dB 40 dB 45 dB
Aux Main In Phono Equiv Phono Dynai Phono Input Channal Bala Phono Aux Main In Interchannel Phono Aux	alent Input Noise nic Range Capacitance nce 0 ~ -40 dB 40 Hz ~ 16 kHz Crosstalk 1 kHz 250 Hz ~ 10 kHz 1 kHz 250 Hz ~ 10 kHz	20 k ohms 36 k ohms 1.5 μV 102 dB 2.5 dB 2.0 dB 1.0 dB 43 dB 40 dB 45 dB 33 dB
Aux Main In Phono Equiv Phono Dynat Phono Input Channal Bala Phono Aux Main In Interchannel Phono	alent Input Noise  nic Range Capacitance  nce 0 ~ -40 dB 40 Hz ~ 16 kHz  Crosstalk 1 kHz 250 Hz ~ 10 kHz	20 k ohms 36 k ohms 1.5 μV 102 dB 100 pF 2.5 dB 2.0 dB 1.0 dB 43 dB 40 dB 45 dB 33 dB

Main In       1 kHz
1 kHz
250 Hz ~ 10 kHz
Output Voltage, 1 kHz
Tape Out
Output Impedance, 1 kHz
Tape Out
Pre Out
Power Consumption
Idling
Rated Power, 1 kHz
GENERAL:  Power Requirements
operating
Idling Power
Semiconductor Complement Transistors 60 Diodes 39 Field Effect Transistors 4 Dimensions
Panel Width 416 mm (16-3/8 inches)
Panel Height
Weight
Unit Alone